



LG

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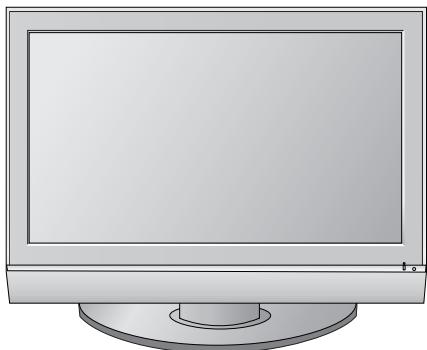
PLASMA TV SERVICE MANUAL

CHASSIS :PA-73E

MODEL : 42PC5DC 42PC5DC-UC
42PC5D 42PC5D-UC

CAUTION

BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by  in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **Isolation Transformer** should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this monitor is blown, replace it with the same specified type.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between $1M\Omega$ and $5.2M\Omega$.

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

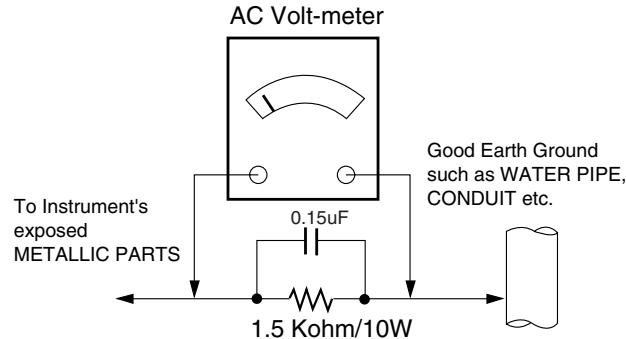
Do not use a line Isolation Transformer during this check. Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



CANADA: LG Electronics Canada, Inc. 550 Matheson Boulevard East Mississauga, Ontario L4Z 4G3

USA : LG Customer Interactive Center
P.O.Box 240007, 201 James Record Road Huntsville,
AL 35824
Digital TV Hotline 1-800-243-0000

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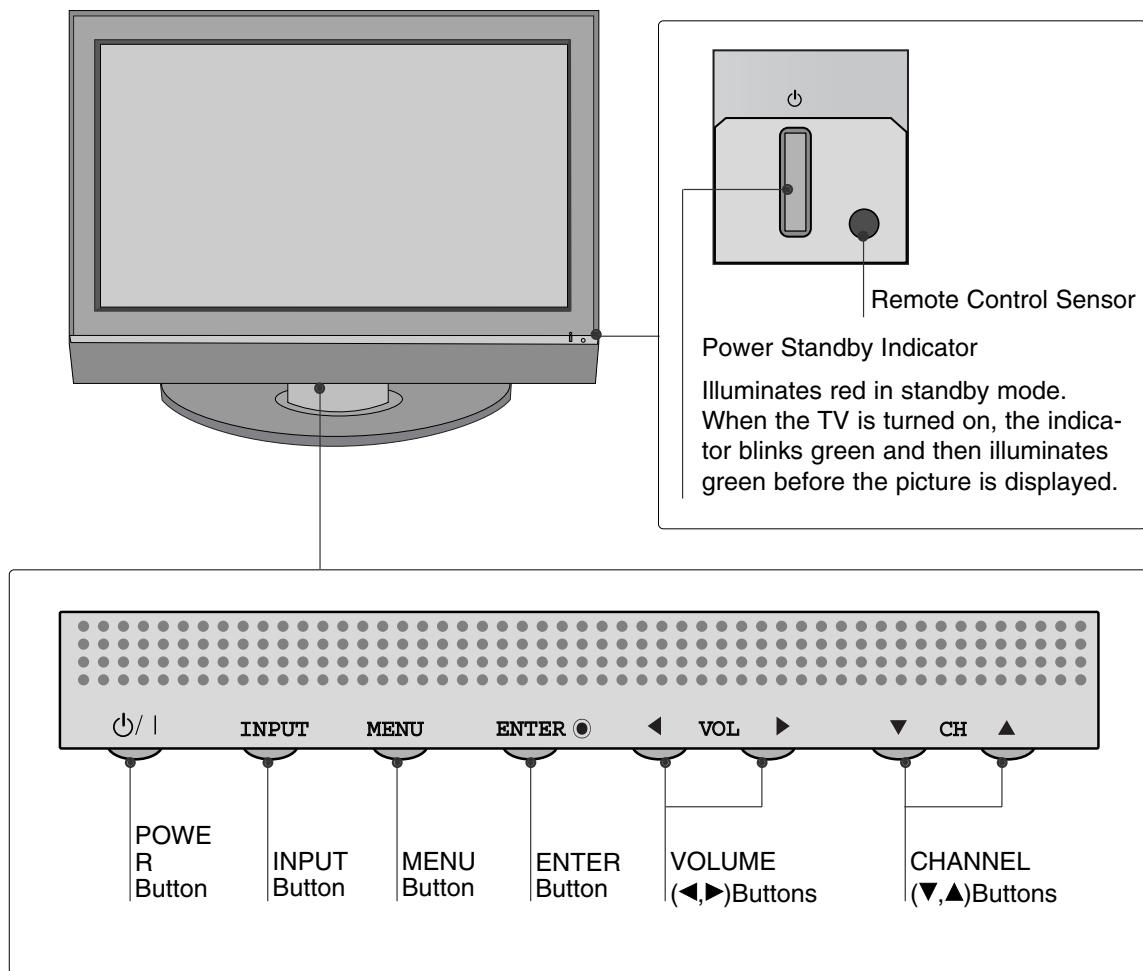
DESCRIPTION OF CONTROLS

FRONT PANEL INFORMATION

Here shown may be somewhat different from your TV.

Front Panel Controls

Plasma TV Model

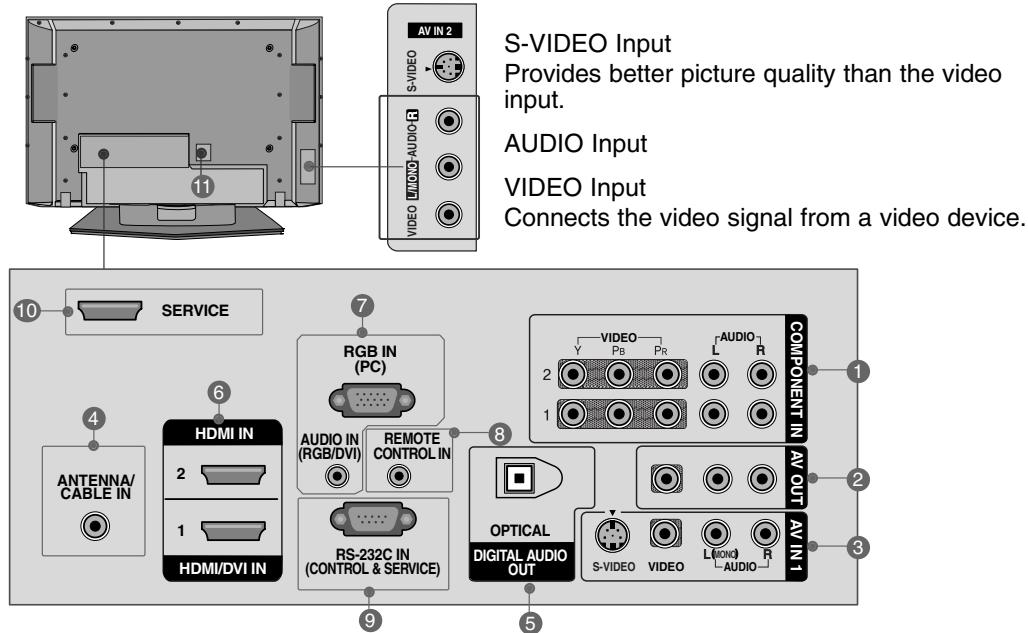


DESCRIPTION OF CONTROLS

BACK PANEL INFORMATION

Back Connection Panel

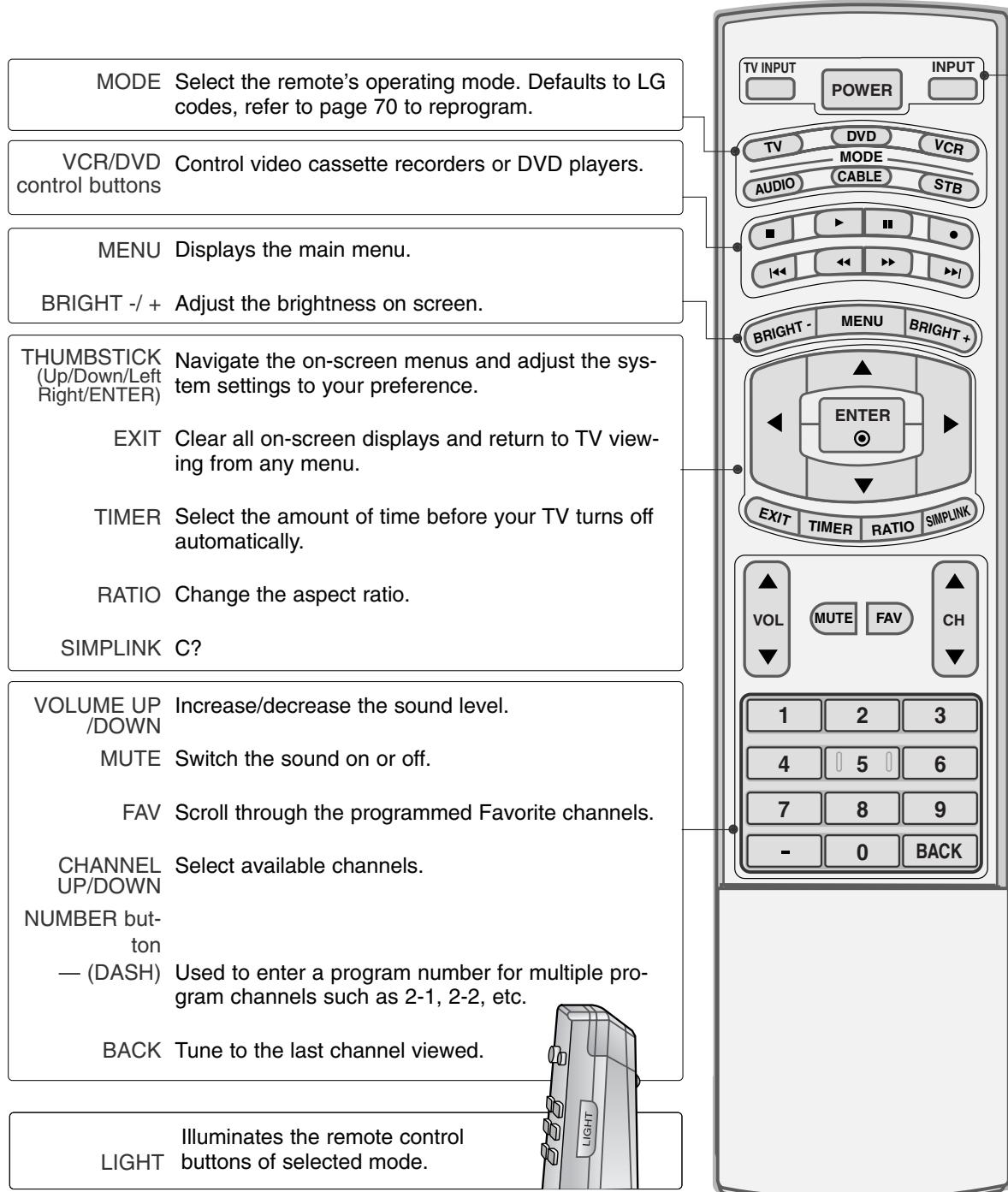
Plasma TV Model



DESCRIPTION OF CONTROLS

REMOTE CONTROL FUNCTIONS

When using the remote control, aim it at the remote control sensor on the TV.



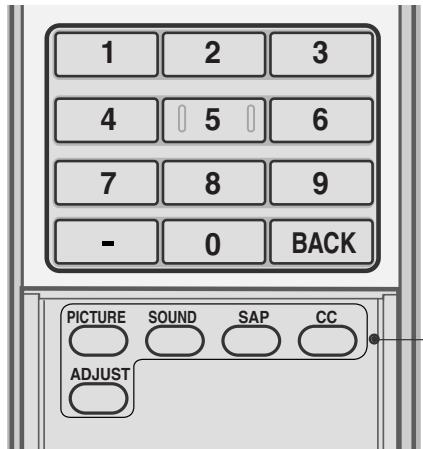
DESCRIPTION OF CONTROLS

POWER Turns your TV or any other programmed equipment on or off, depending on the mode.

TV INPUT In AV 1-2, Component 1-2, RGB-PC, HDMI1/DVI, and HDMI2 input sources, screen returns to the last TV channel.

INPUT External input modes rotate in regular sequence: TV, AV1-2, Component 1-2, RGB-PC, HDMI1/DVI and HDMI2.
(AV 1-2, Component 1-2, RGB-PC, HDMI1/DVI, and HDMI2 input sources are linked automatically, only if a device is connected.)

Inside the Sliding Cover



PICTURE Selects the factory preset picture depend on the viewing environment.

SOUND Selects the factory preset sound for type of program.

SAP •Analog mode: Selects MTS sound (Mono, Stereo, or a SAP)
•DTV mode: Changes the audio language.

CC Select a closed caption.
(*In DTV/CADTV mode)

ADJUST Adjust the screen resolution, position, size and phase.

SPECIFICATIONS

MODELS		42PC5D (42PC5D-UC)	50PC5D (50PC5D-UC)
Dimensions (Width x Height x Depth)	Including stand	41.3 x 30.2 x 12.2 inches 1048.0 x 766.0 x 310.0 mm	48.9 x 34.9 x 14.6 inches 1242.0 x 887.6 x 370.0 mm
	Excluding stand	41.3 x 28.1 x 3.3 inches 1048.0 x 713.0 x 83.5 mm	48.9 x 32.6 x 3.5 inches 1242.0 x 827.2 x 88.0 mm
Weight	including stand	60.8 pounds / 27.6 kg	86.6 pounds / 39.3 kg
	excluding stand	53.4 pounds / 24.2 kg	76.3 pounds / 34.6 kg
Power requirement		AC100-240V ~ 50/60Hz	
Television System		NTSC-M, ATSC, 64 & 256 QAM	
Program Coverage		VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135	
External Antenna		75 ohm	
Impedance			
Environment condition	Operating Temperature	32 ~ 104°F (0 ~ 40°C)	
	Operating Humidity	Less than 80%	
	Storage Temperature	-4 ~ 140°F (-20 ~ 60°C)	
	Storage Humidity	Less than 85%	

The specifications shown above may be changed without prior notice for quality improvement.

ADJUSTMENT INSTRUCTIONS

1. Application Object

These instructions are applied to all of the PDP TV, PA73E.

If you turn on a still screen more than 20 minutes (Especially Digital pattern(13 CH), Cross Hatch Pattern), an afterimage may occur in the black level part of the screen.

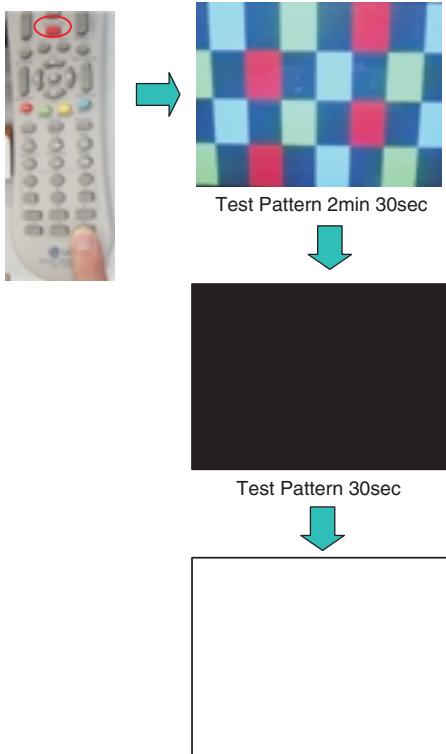
2. Notes

- (1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test equipment.
- (2) Adjustments must be done in the correct order.
- (3) The adjustments must be performed in the circumstance of $25\pm5^{\circ}\text{C}$ of temperature and $65\pm10\%$ of relative humidity if there is no specific designation.
- (4) The input voltage of the receiver be must kept 110V, 60Hz when adjusting.
- (5) The receiver must be operational for about 15 minutes prior to the adjustments.

● Preliminary action is applied to the test for afterimage discharge detection, and 100% FULL WHITE PATTERN must be operated automatically.

- 1) Pressing Power On key
- 2) Full Test Pattern(2 min 30sec)
- 3) Full Black Pattern(30sec)
- 4) Full White Pattern

● Pattern Mode is deselected by pressing CH +/-, Exit Key.

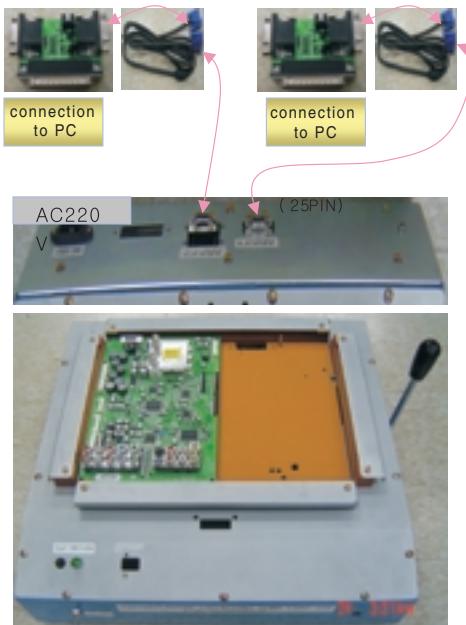


3. MICOM Download(Option)

3-1. Required Test Equipment

- (1) JIG-LEVER TYPE for adjusting: 1EA
- (2) PC & MONITOR: 2EA
- (3) BOARD for INTERFACE: IIC & ISP BOARD: 2EA
- (4) 15P D-SUB CABLE: 2EA
- (5) Using the 12/15 line of D-SUB 15P
12-SDA/15-SCL

3-2. JIG Connection



3-3. Establishment Program

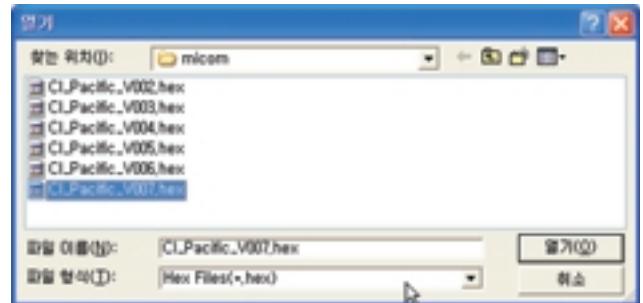
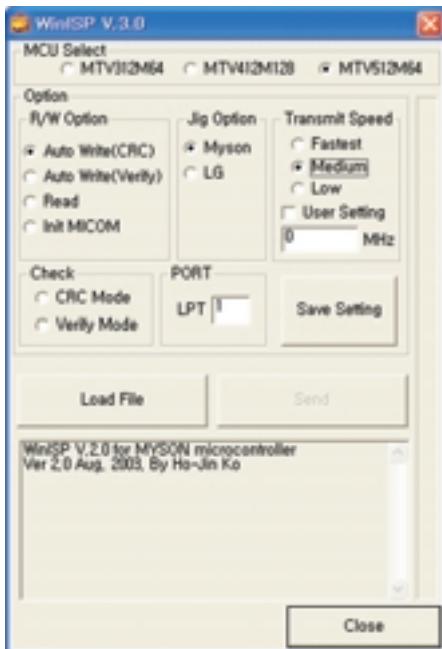
- (1) Establish LGE Monitor Tools v1.1
- (2) The program work and it is opened program window as seen below.



* Set is activated HEAT-RUN without signal generator in this mode.

ADJUSTMENT INSTRUCTIONS

(3) Click the first icon shown in fig.9. The window seen in fig.10 should appear.



(3) Click the Send.



(4) When you see (ISP COMPLETE) the download is complete.



3-4. Set Method

(1) MCU Select: MTV512M64

(2) Option

R/W Option: Auto Write(Verity)

Jig Option: Myson

Transmit Speed: Medium

(3) Check: Just do it with blank micom.

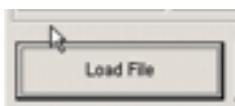
(4) PORT

Choose Parallel Port (normal LPT1)

Attention: You must choose EPP when select Rom BIAS at LPT

3-5. Download Method

(1) Click the Load File.



(2) Locate and select the correct file from your computer.
(*.hex).

ADJUSTMENT INSTRUCTIONS

4. USB S/W Download (Option)

4-1. Overview

USB Download enables quick response to S/W upgrading and helps to configure the panel to the latest updates.

4-2. How to Download

- (1) Before starting USB download, ensure that the power is turned off and the display is turned on.
- (2) Once the USB memory stick containing the upgraded file is connected to the USB port on the main board, the following picture appears on the screen.



<S/W Upgrade Screen>

- (3) Check the current version at [Current TV Software Version Information] and the target version at [New Found TV Software Version Information]. Press Enter on the remote controller to confirm the upgrade.
- (4) The following picture shows the downloading in progress. Once the download is completed, the power is automatically turned on and off. (Otherwise, please turn the power on and off)



<Downloading in progress Screen>

ADJUSTMENT INSTRUCTIONS

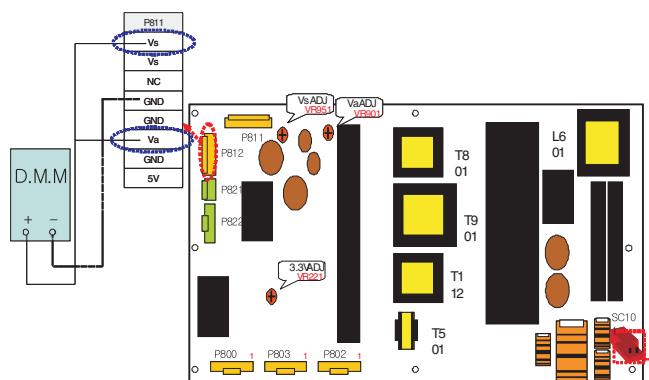
Each PCB Assy must be checked by Check JIG Set before assembly. (Especially, be careful Power PCB Assy which can cause Damage to the PDP Module.)

5. POWER PCB Assy Voltage Adjustment (Va, Vs Voltage Adjustment)

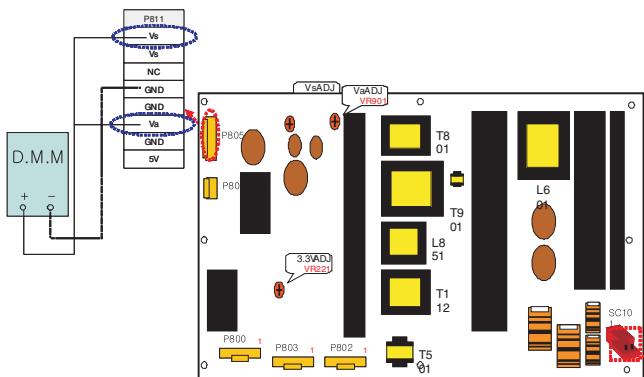
5-1. Test Equipment : D.M.M 1EA

5-2. Connection Diagram for Measuring

Refer to Fig 1.



<Fig. 1-1> Connection Diagram of Power Adjustment for Measuring (Power Board): 42" XGA/VGA



<Fig. 1-2> Connection Diagram of Power Adjustment for Measuring (Power Board): 50"

5-3. Adjustment(42"/50")

(1) Va Adjustment

- 1) Connect + terminal of D.M.M to Va pin of P812(50": P805) and connect – terminal to GND pin of P812(50": P805).
- 2) Adjust VR901 voltage to match that of the label on the Top/Right of the panel. (Deviation : $\pm 0.5V$)

(2) Vs Adjustment

- 1) Connect + terminal of D.M.M to Vs pin of P812(50": P805) and connect – terminal to GND pin of P812(50": P805).
- 2) Adjust VR951 voltage to match that of the label on the Top/Right of the panel. (Deviation : $\pm 0.5V$)

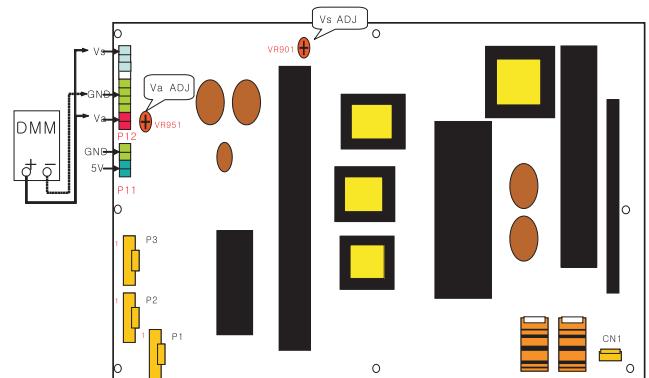
5-4. Adjustment(Sanken: EAY32929001)

(1) Va Adjustment

- 1) Connect + terminal of D.M.M to Va pin of P12 and connect – terminal to GND pin of P12.
- 2) Adjust VR951 voltage to match that of the label on the Top/Right of the panel. (Deviation : $\pm 0.5V$)

(2) Vs Adjustment

- 1) Connect + terminal of D.M.M to Vs pin of P12 and connect – terminal to GND pin of P12.
- 2) Adjust VR901 voltage to match that of the label on the Top/Right of the panel. (Deviation : $\pm 0.5V$)



<Fig. 1-3> 50" PSU(Sanken: EAY32929001)

ADJUSTMENT INSTRUCTIONS

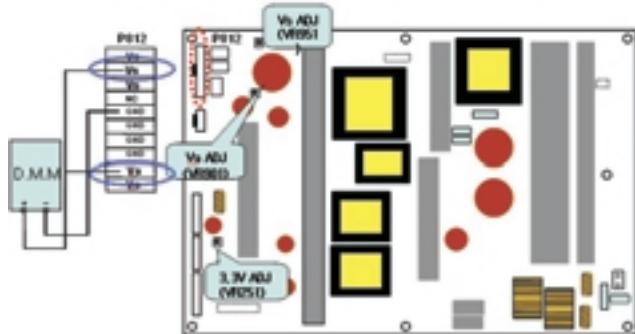
5-5. Adjustment(LG IT: EAY32957901)

(1) Va Adjustment

- 1) Connect + terminal of D.M.M to Va pin of P812 and connect – terminal to GND pin of P812.
- 2) Adjust VR951 voltage to match that of the label on the Top/Right of the panel. (Deviation : $\pm 0.5V$)

(2) Vs Adjustment

- 1) Connect + terminal of D.M.M to Vs pin of P812 and connect – terminal to GND pin of P812.
- 2) Adjust VR901 voltage to match that of the label on the Top/Right of the panel. (Deviation : $\pm 0.5V$)



<Fig. 1-4> 50" PSU(LG IT: EAY32957901)

6. ADC-Set Adjustment

6-1. Synopsis

ADC-Set adjustment to set the black level and the Gain to optimum.

6-2. Test Equipment

Service R/C, 801GF(802V, 802F, 802R) or MSPG925FA Pattern Generator
(480i/1080i The Horizontal 100% Color Bar Pattern adjust to within $0.7 \pm 0.1 V_{p-p}$)

[ADC adjustment (MSPG-925Fx series) Model No. & Pattern No.]
- Model No.: #209(480i adjustment), #223(1080i adjustment)
- Pattern No.: #65(7ColorBar Pattern)

Ez Adjust

1. CVBS ACC Adjust
2. ADC 480i Comp1
3. ADC 1080i Comp1/RGB
4. Reserved
5. Sub-Brightness/Contrast
6. White-Balance
7. Module Control
8. Temperature Threshold
9. White-Pattern
10. 2 Hour Off Option
11. OAD

<Fig. 2> Adjustment Mode



<Fig. 3> Adjustment Pattern: 480i/1080i 60Hz HozTV31Bar Pattern

ADJUSTMENT INSTRUCTIONS

6-3. Adjustment

- (1) Select Component1 as the input with 100% Horizontal Color Bar Pattern(HozTV31Bar) in 480i Mode
- (2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '2. ADC 480i Comp1'.
Pressing the Enter Key to adjust automatically.
- (3) When the adjustment is over, 'MST3361 Component Success' is displayed. If the adjustment has errors, 'MST3361 Configuration Error' is displayed.
- (4) Select Component1 as the input with 100% Horizontal Color Bar Pattern(HozTV31Bar) in 1080i Mode.
- (5) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '3. ADC 1080i Comp1/RGB'.
Pressing the Enter Key to adjust automatically.
- (6) When the adjustment is over, 'MST3361 Component Success' is displayed. If the adjustment has errors, 'MST3361 Configuration Error' is displayed.
- (7) After the Component MST3361 adjustment is over, convert the RGB-DTV Mode and display Pattern.
When the adjustment is over, 'MST3361 RGB_DTV Success' is displayed.
- (8) Readjust after confirming the case Pattern or adjustment condition where the adjustment errors.
- (9) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

7. EDID(The Extended Display Identification Data)/DDC (Display Data Channel) Download

This is the function that enables "Plug and Play".

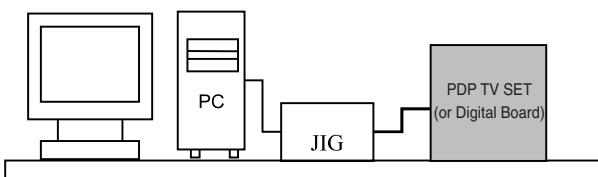
7-1. HDMI EDID Data Input

(1) Required Test Equipment

- 1) PC, Jig for adjusting DDC. (PC serial to D-sub Connection equipment)
- 2) S/W for writing DDC(EDID data write & read)
- 3) D-Sub cable
- 4) Jig for HDMI Cable connection

(2) Preparation for Adjustments & Setting of Device

- 1) Set devices as below and turn on the PC and JIG.
- 2) Open S/W for writing DDC (EDID data write & read). (operated in DOS mode)



7-2. EDID DATA for PA-73E

[42PC5D-UC]

- EDID for HDMI-1 (DDC (Display Data Channel) Data)
EDID Block 0 table =

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

0	I	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	00	01	01	01	01
10	I	00	10	01	03	80	73	41	96	0A	CF	74	A3	57	4C	B0	23
20	I	09	48	4C	2F	CE	00	31	40	45	40	61	40	01	01	01	01
30	I	01	01	01	01	01	01	66	21	50	B0	51	00	1B	30	40	70
40	I	36	00	C4	8E	21	00	00	1E	0E	1F	00	80	51	00	1E	30
50	I	40	80	37	00	C4	8E	21	00	00	1C	00	00	00	FD	00	38
60	I	4B	1F	3C	09	00	0A	20	20	20	02	20	00	00	00	FC	
70	I	00	34	32	50	43	35	44	2D	55	43	0A	20	20	20	01	5D

EDID Block 1 table =

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

0	I	02	03	15	F1	46	84	05	03	02	20	22	23	15	07	50	65
10	I	03	0C	00	10	00	01	1D	00	72	51	D0	1E	20	6E	28	55
20	I	00	C4	8E	21	00	00	1E	01	1D	80	18	71	1C	16	20	58
30	I	2C	25	00	C4	8E	21	00	00	9E	8C	0A	D0	8A	20	E0	2D
40	I	10	10	3E	96	00	C4	8E	21	00	00	18	8C	0A	D0	8A	20
50	I	E0	2D	10	10	3E	96	00	13	8E	21	00	00	18	00	00	00
60	I	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	I	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	A7

- EDID for HDMI-2 (DDC (Display Data Channel) Data)

EDID Block 0 table =

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

0	I	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	00	01	01	01	01
10	I	00	10	01	03	80	73	41	96	0A	CF	74	A3	57	4C	B0	23
20	I	09	48	4C	2F	CE	00	31	40	45	40	61	40	01	01	01	01
30	I	01	01	01	01	01	01	1D	00	72	51	D0	1E	20	6E	28	
40	I	55	00	C4	8E	21	00	00	1E	01	1D	80	18	71	1C	16	20
50	I	58	2C	25	00	C4	8E	21	00	00	9E	00	00	00	FC	00	34
60	I	32	50	43	35	44	2D	55	43	0A	20	20	20	00	00	00	FD
70	I	00	38	4B	1F	3C	09	00	0A	20	20	20	20	20	20	01	0D

EDID Block 1 table =

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

0	I	02	03	15	F1	46	84	05	03	02	20	22	23	15	07	50	65
10	I	03	0C	00	20	00	8C	0A	D0	8A	20	E0	2D	10	10	3E	96
20	I	00	C4	8E	21	00	00	18	8C	0A	D0	8A	20	E0	2D	10	10
30	I	3E	96	00	13	8E	21	00	00	18	00	00	00	00	00	00	00
40	I	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
50	I	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	I	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	I	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	35

ADJUSTMENT INSTRUCTIONS

- EDID for RGB-PC

EDID Block 0 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0 00 FF FF FF FF FF 00 1E 6D 01 00 01 01 01 01 01																
10 00 10 01 03 68 73 41 96 0A CF 30 A3 57 4C B0 23																
20 09 50 4E A1 08 00 01 01 01 01 01 01 01 01 01 01 01																
30 01 01 01 01 01 01 66 21 50 B0 51 00 1B 30 40 70																
40 36 00 C4 8E 21 00 00 1E 0E 1F 00 80 51 00 1E 30																
50 40 80 37 00 C4 8E 21 00 00 1C 00 00 00 FD 00 38																
60 4B 1F 3C 09 00 0A 20 20 20 20 20 00 00 00 FC																
70 00 34 32 50 43 35 44 2D 55 43 0A 20 20 20 00 77																

[50PC5D-UC]

- EDID for HDMI-1 (DDC (Display Data Channel) Data)

EDID Block 0 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0 00 FF FF FF FF FF 00 1E 6D 01 00 01 01 01 01 01																
10 00 10 01 03 80 73 41 96 0A CF 74 A3 57 4C B0 23																
20 09 48 4C 2F CE 00 31 40 45 40 61 40 01 01 01 01 01																
30 01 01 01 01 01 01 66 21 50 B0 51 00 1B 30 40 70																
40 36 00 C4 8E 21 00 00 1E 0E 1F 00 80 51 00 1E 30																
50 40 80 37 00 C4 8E 21 00 00 1C 00 00 00 FD 00 38																
60 4B 1F 3C 09 00 0A 20 20 20 20 20 00 00 00 FC																
70 00 35 30 50 43 35 44 2D 55 43 0A 20 20 20 01 5E																

EDID Block 1 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0 02 03 15 F1 46 84 05 03 02 20 22 23 15 07 50 65																
10 03 0C 00 10 00 01 1D 00 72 51 D0 1E 20 6E 28 55																
20 00 C4 8E 21 00 00 1E 01 1D 80 18 71 1C 16 20 58																
30 2C 25 00 C4 8E 21 00 00 9E 8C 0A D0 8A 20 E0 2D																
40 10 10 3E 96 00 C4 8E 21 00 00 18 8C 0A D0 8A 20																
50 E0 2D 10 10 3E 96 00 13 8E 21 00 00 18 00 00 00																
60 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00																
70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 A7																

- EDID for HDMI-2 (DDC (Display Data Channel) Data)

EDID Block 0 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0 00 FF FF FF FF FF 00 1E 6D 01 00 01 01 01 01 01																
10 00 10 01 03 80 73 41 96 0A CF 74 A3 57 4C B0 23																
20 09 48 4C 2F CE 00 31 40 45 40 61 40 01 01 01 01																
30 01 01 01 01 01 01 01 1D 00 72 51 D0 1E 20 6E 28																
40 55 00 C4 8E 21 00 00 1E 01 1D 80 18 71 1C 16 20																
50 58 2C 25 00 C4 8E 21 00 00 9E 00 00 00 FC 00 35																
60 30 50 43 35 44 2D 55 43 0A 20 20 20 00 00 00 FD																
70 00 38 4B 1F 3C 09 00 0A 20 20 20 20 20 01 0E																

EDID Block 1 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0 02 03 15 F1 46 84 05 03 02 20 22 23 15 07 50 65																
10 03 0C 00 20 00 8C 0A D0 8A 20 E0 2D 10 10 3E 96																
20 00 C4 8E 21 00 00 18 8C 0A D0 8A 20 E0 2D 10 10																
30 3E 96 00 13 8E 21 00 00 18 00 00 00 00 00 00 00 00 00																
40 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00																
50 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00																
60 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00																
70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 35																

- EDID for RGB-PC

EDID Block 0 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0 00 FF FF FF FF FF 00 1E 6D 01 00 01 01 01 01 01																
10 00 10 01 03 80 73 41 96 0A CF 30 A3 57 4C B0 23																
20 09 50 4E A1 08 00 01 01 01 01 01 01 01 01 01 01																
30 01 01 01 01 01 01 66 21 50 B0 51 00 1B 30 40 70																
40 36 00 C4 8E 21 00 00 1E 0E 1F 00 80 51 00 1E 30																
50 40 80 37 00 C4 8E 21 00 00 1C 00 00 00 FD 00 38																
60 4B 1F 3C 09 00 0A 20 20 20 20 20 00 00 00 00 FC																
70 00 35 30 50 43 33 44 2D 55 45 0A 20 20 20 00 78																

ADJUSTMENT INSTRUCTIONS

8. Adjustment of White Balance

8-1. The Purpose and Principal of Color Temperature Adjustment

- (1) Purpose: to reduce the difference in color temperature among modules
- (2) Principal: A module is in full dynamic range when RGB Gain on OSD is 192. To adjust the white balance without causing full dynamic range and full data, fix one of RGB Gains at 192 and control the other two by reducing them from 192.

8-2. Required Equipment

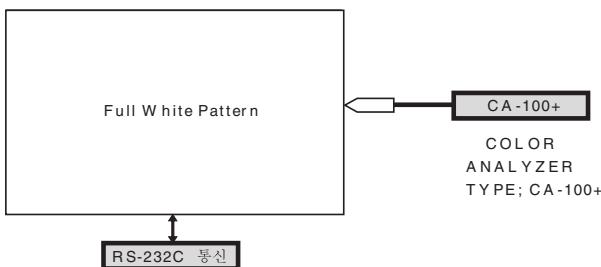
- (1) Color Analyzer : CA-100+(CH 10), CA-100(CH 10) or CA-210(CH 10)
=> To adjust color temperature of Plasma, CS-1000 is the Color Analyzer and should be set to use CH 10 in which white, red, green, and blue color are corrected. Conduct the adjustment according to the coordinates for White Balance adjustment in the table below.

In the case of using color-corrected CA-100, CA-100+, and CA-210 (using CH10) to adjust Plasma, there are differences for CS-1000 in the result due to the characteristics of a module or filter. The target values of the color coordinates in the table below are given to prevent it.

- (2) Automatic adjustor (with automatic adjustment necessity and the RS-232C communication being possible)

8-3. Connection Diagram of Equipment for Measuring (Automatic Adjustment)

Use the internal pattern to adjust White Balance. The pattern is automatically given when the automatic adjustment device is connected or when a user presses ADJ on the remote controller to start Ez Adjust and then selects 6.White-Balance.



Connection Diagram of Automatic Adjustment

* Requirements for Automatic Adjustment

- (1) The illuminance of surroundings
10 lux or less; preventing light in surroundings as much as possible
- (2) The location of the Probe
 - 1) For PDP: place the color analyzer (CA-100, CA-100+, and CA-210) close to the surface of a module and start the adjustment.
 - 2) For LCD: place the color analyzer (CA-210) close to the surface of a module within 10 cm and keep the probe of the color analyzer at 80° to 100° angle from the surface of a module.
- (3) Aging time
 - 1) Once Aging is started, keep the power on without power supply interruption for at least 15 minutes for heat run.
 - 2) For PDP, use the internal pattern to adjust White Pattern.
 - 3) For LCD, use NO SIGNAL or Full White Pattern to ensure the backlight is turned on.

8-4. Adjustment of White Balance

(Automatic Adjustment)

- (1) Turn on the POWER ON(■) of the remote controller to set the adjustment and then start the automatic adjustment or set the Baud Rate to 115200.Â of the remote controller to
- (2) Start the adjustment from "wb 00 00" and complete it at "wb 00 ff". (Adjust the offset if necessary)

wb 00 00 the automatic adjustment of White Balance is started.

wb 00 10 adjusting gain (internal pattern appears) is started.

ja 00 ff adjusting data

jb 00 c0

...

wb 00 1f adjusting gain is completed.

Adjust the offset (from wb 00 20 to wb 00 2f) if necessary.

wb 00 ff the automatic adjustment of White Balance (internal pattern disappears) is completed.

ADJUSTMENT INSTRUCTIONS

* RS-232C Command (Automatic Adjustment)

[42PC5D-UC] & [50PC5D-UC]

	RS-232C COMMAND [CMD ID DATA]			Min	CENTER (DEFAULT)(Decimal)			Max (Decimal)
	Cool	Mid	Warm		Cool	Mid	Warm	
R Gain	jg	ja	jd	00				192
G Gain	jh	jb	je	00				192
B Gain	ji	jc	jf	00				192
R Cut					64	64	64	
G Cut					64	64	64	
B Cut					64	64	64	

* Color temperature: Cool, Medium, Warm

- (1) When R Gain is fixed at 192,
Control G Gain and B Gain by reducing them from 192.
- (2) When B Gain is fixed at 192,
Control R Gain and G Gain by reducing them from 192.
- (3) When G Gain is fixed to 192,
Control R Gain and B Gain by reducing them from 192.

Fix one of three Gains (R Gain, G Gain, and B Gain) at 192 and control the other two by reducing values from 192 to prevent it from increasing.

(When RGB Gains are all 192, the module is in full dynamic range.)

[WARNING] RGB-Cut fixed value

If the model has a fixed value, the equivalent value must be applied.

Fix one of three Gains (R Gain, G Gain, and B Gain) at 192 and control the other two by reducing values from 192.

8-5. Adjustment of White Balance

(Manual Adjustment)

Required Equipment: CA-100 (CH 10), CA-100+ (CH 10), CA-210 (CH-10)

--> To adjust color temperature of Plasma, CS-1000 is the Color Analyzer and should be set to use CH 10 in which white, red, green, and blue color are corrected. Conduct the adjustment according to the coordinates for White Balance adjustment in the table below.

- (1) Enter 'Ez - Adjust' by pressing ADJ KEY on the Service Remote Control.
- (2) Select "9. TEST PATTERN" using CH +/- Key and HEAT RUN at least 30 minutes by pressing the ENTER Key.
- (3) Zero Calibrate of the Color Analyzer, then attach sensor to PDP module surface when you adjust.
- (4) Select '6. White-Balance' of 'Ez - Adjust' by pressing the ADJ KEY on the Service R/C. Then enter adjustment mode by pressing the Right KEY (►).
(The internal pattern of full white appears by pressing ►)
- (5) The adjustment is conducted in three levels of color temperature; COOL, MEDIUM, and WARM.

[WARNING] RGB-Cut fixed value

If the model has a fixed value, the equivalent value must be applied.

ADJUSTMENT INSTRUCTIONS

* White Balance

High Level : 216gray

[The standard coordinates and color temperature for CS-1000]

Mode	Color Coordination		Temp	Δuv
	x	y		
Cool	0.276	0.283	11000K	0.0000
Medium	0.285	0.293	9300K	0.0000
Warm	0.314	0.324	6500K	0.0000

[The standard coordinates and color temperature for CA-100/100+ (CH 10)]

Module	Maker	Filter	Mode	Color Coordination		Temp	Δuv
				x	y		
42" XGA 42X4	LGE	41% Glass	Cool	0.276±0.002	0.280±0.002	11200K	-0.002
			Medium	0.285±0.002	0.290±0.002	9400K	-0.002
			Warm	0.314±0.002	0.321±0.002	6500K	-0.002
50" WXGA 50X4	LGE	41% Glass	Cool	0.276±0.002	0.281±0.002	11100K	-0.001
			Medium	0.285±0.002	0.291±0.002	9400K	-0.002
			Warm	0.314±0.002	0.322±0.002	6500K	-0.001

[The standard coordinates and color temperature for CA-210(CH 10)]

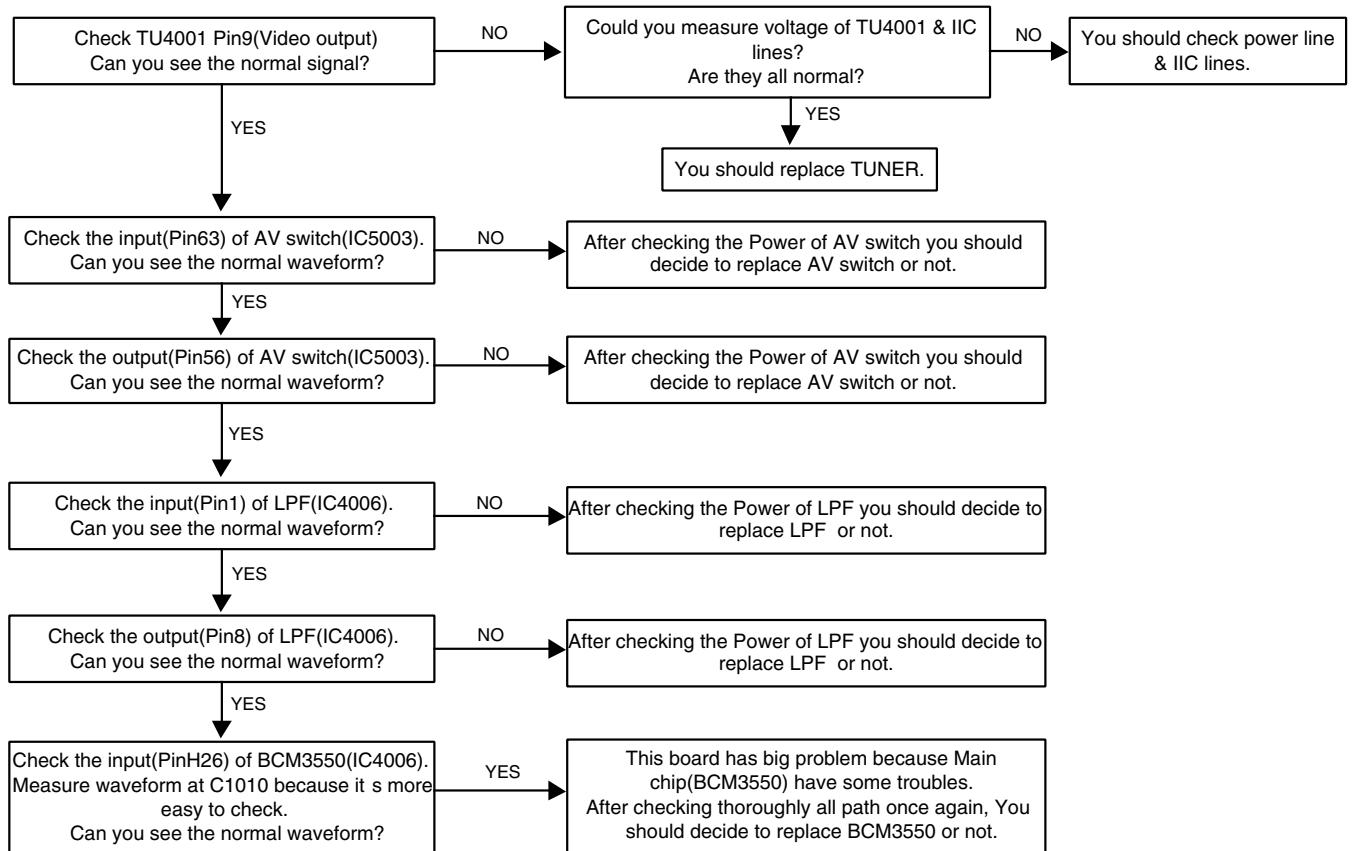
Module	Maker	Filter	Mode	Color Coordination		Temp	Δuv
				x	y		
42" XGA 42X3	LGE	41% Glass	Cool	0.276±0.002	0.280±0.002	11000K	0.0000
			Medium	0.285±0.002	0.293±0.002	9300K	0.0000
			Warm	0.314±0.002	0.324±0.002	6500K	0.0000

50" WXGA(50X4) 41% Glass Filter

This model can be adjusted by using the same color coordinates to 42" XGA (42X4) 41% Glass Filter.

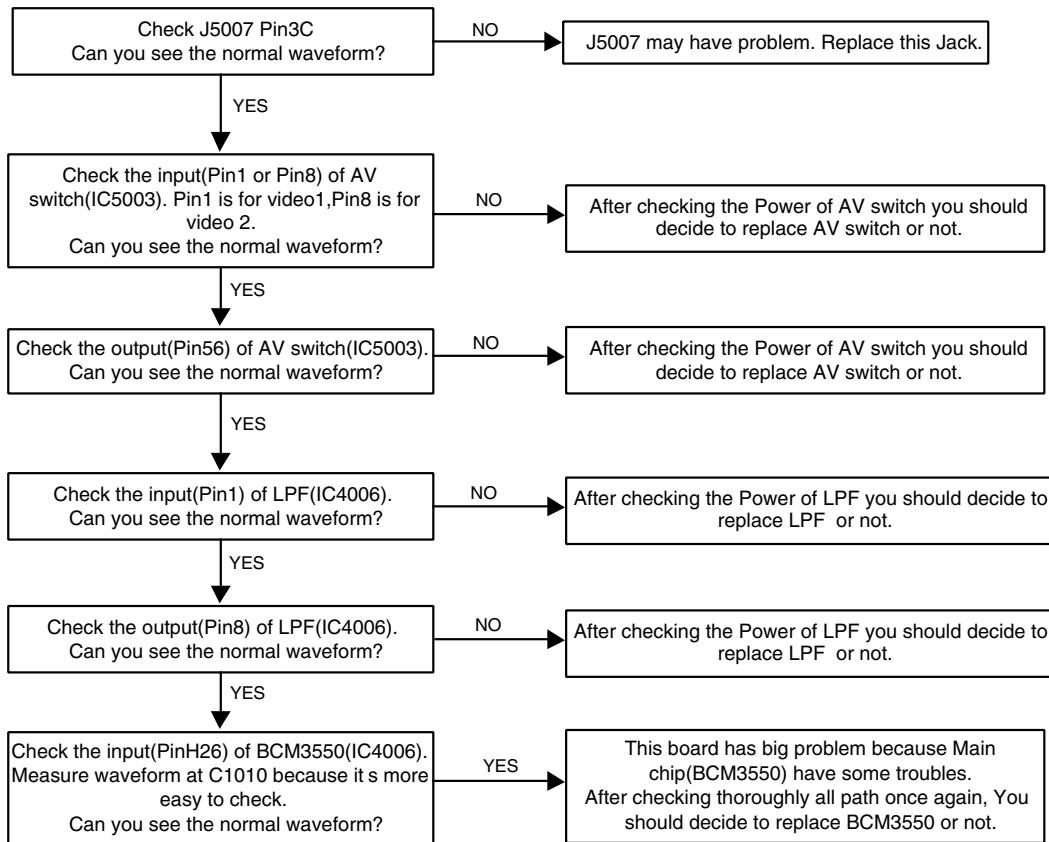
TROUBLESHOOTING GUIDE

TV/CATV doesn't display



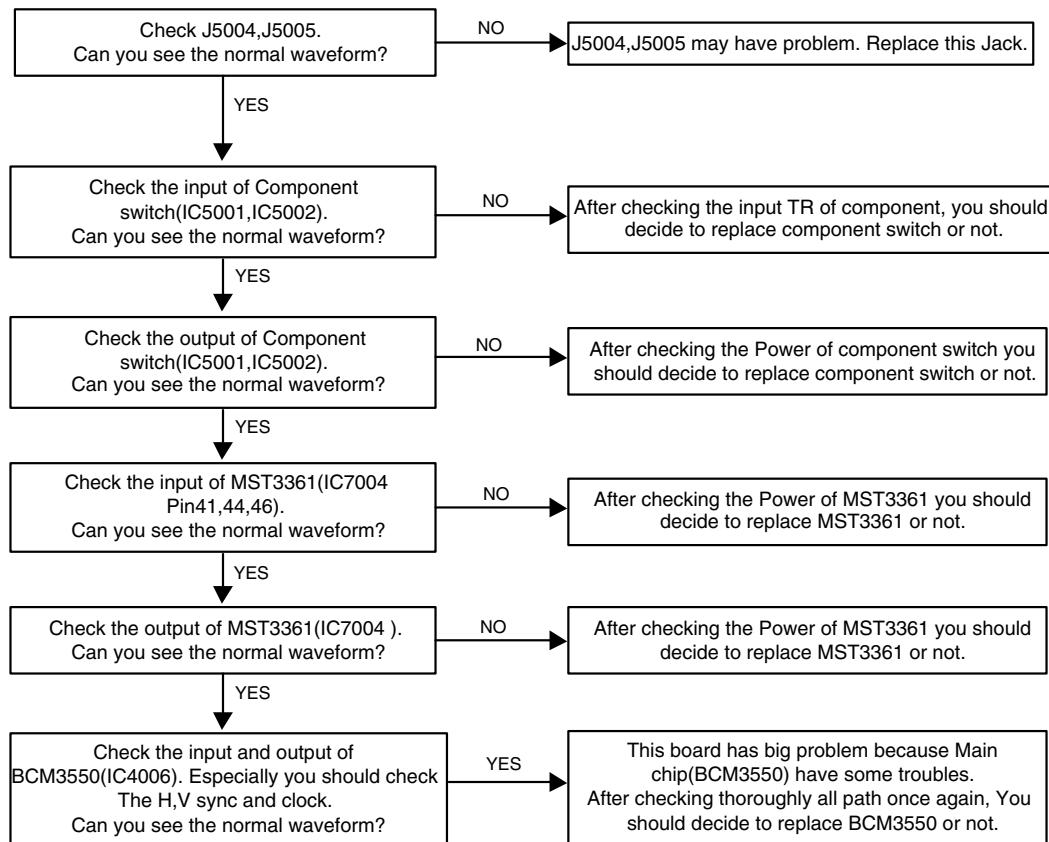
TROUBLESHOOTING GUIDE

Video doesn't display



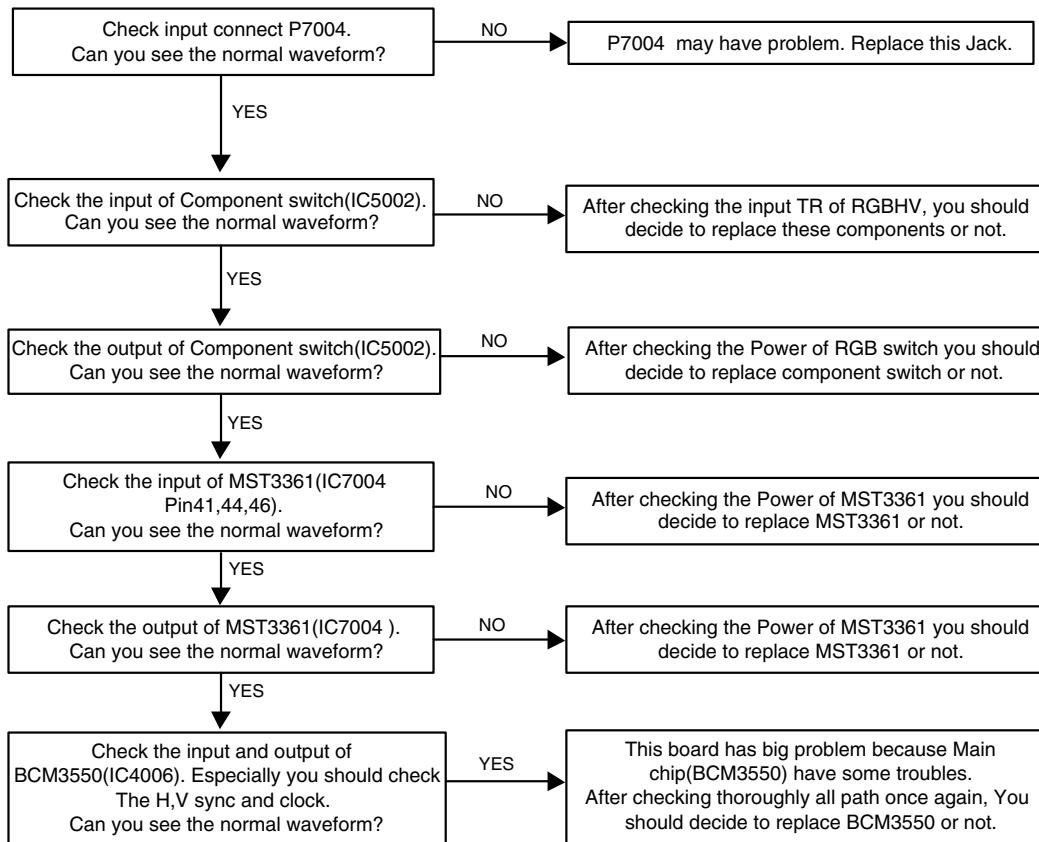
TROUBLESHOOTING GUIDE

Component doesn't display



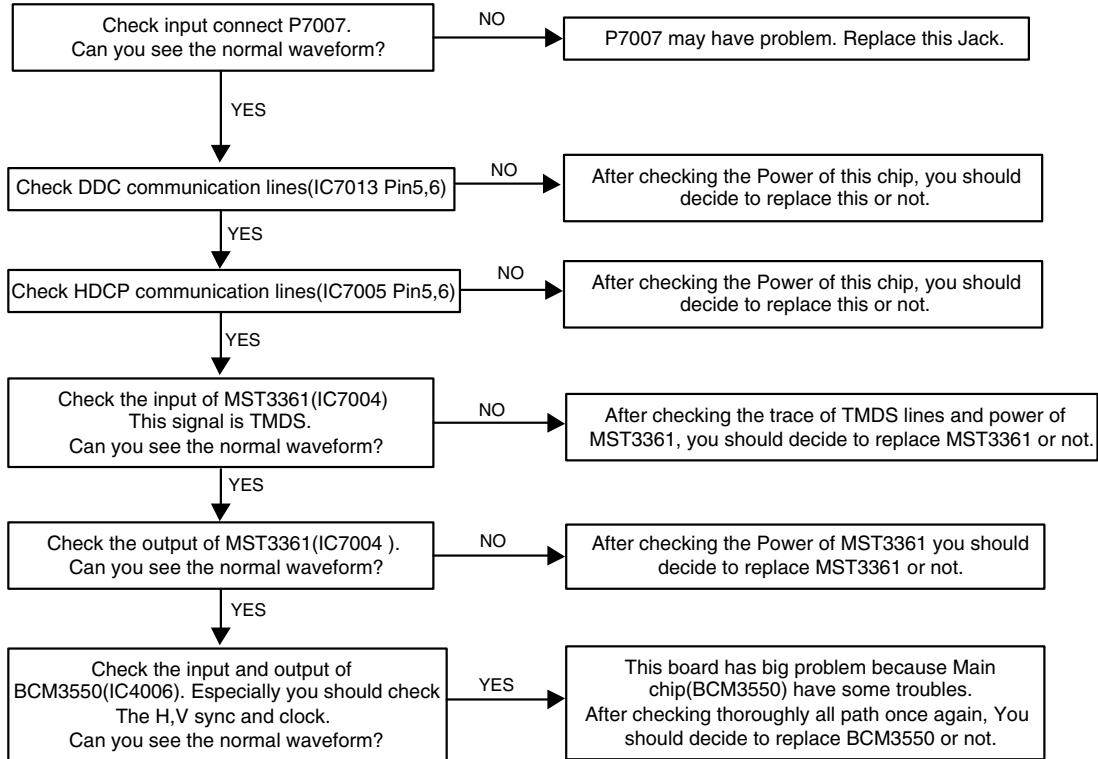
TROUBLESHOOTING GUIDE

RGB_PC doesn't display



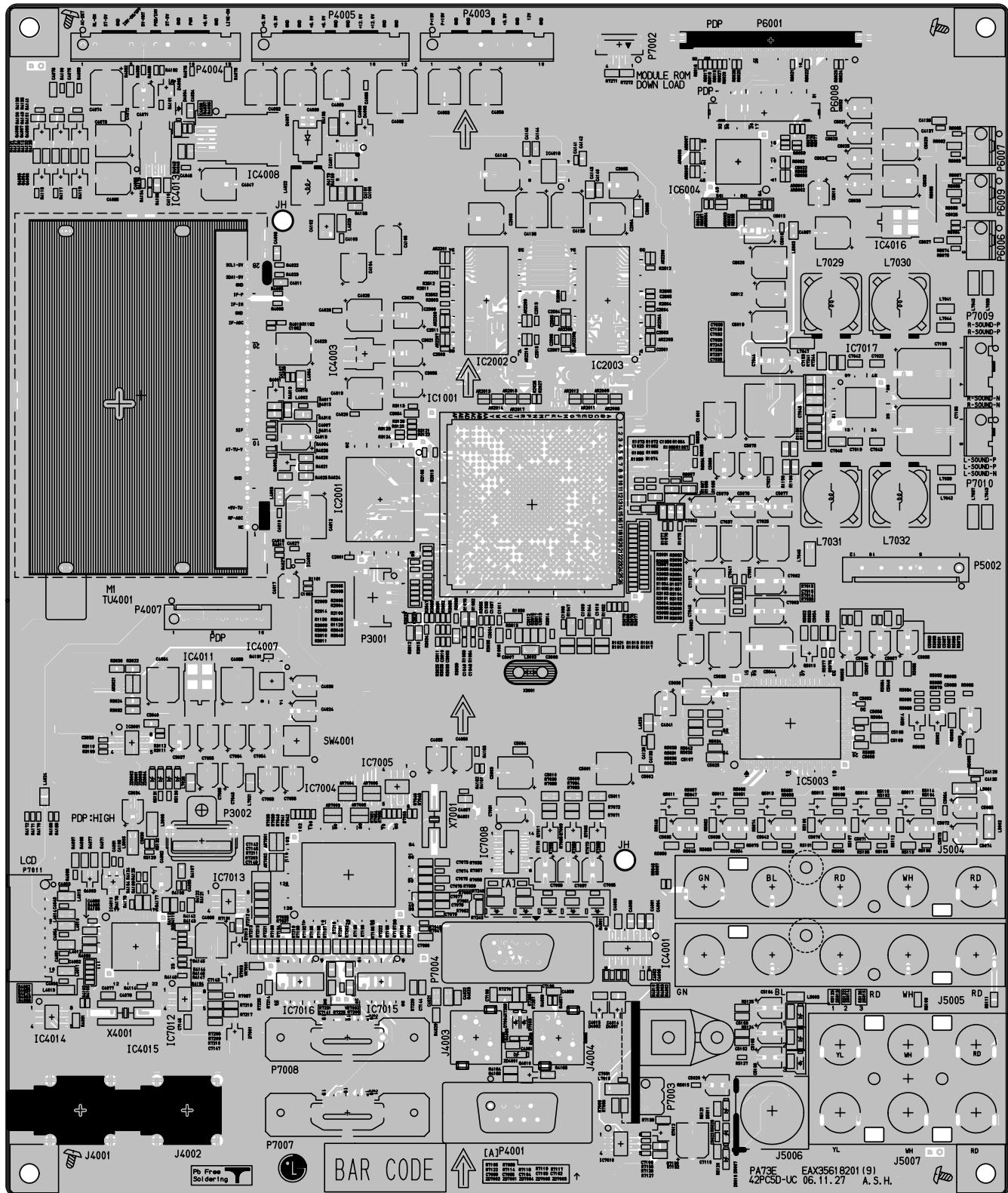
TROUBLESHOOTING GUIDE

HDMI doesn't display



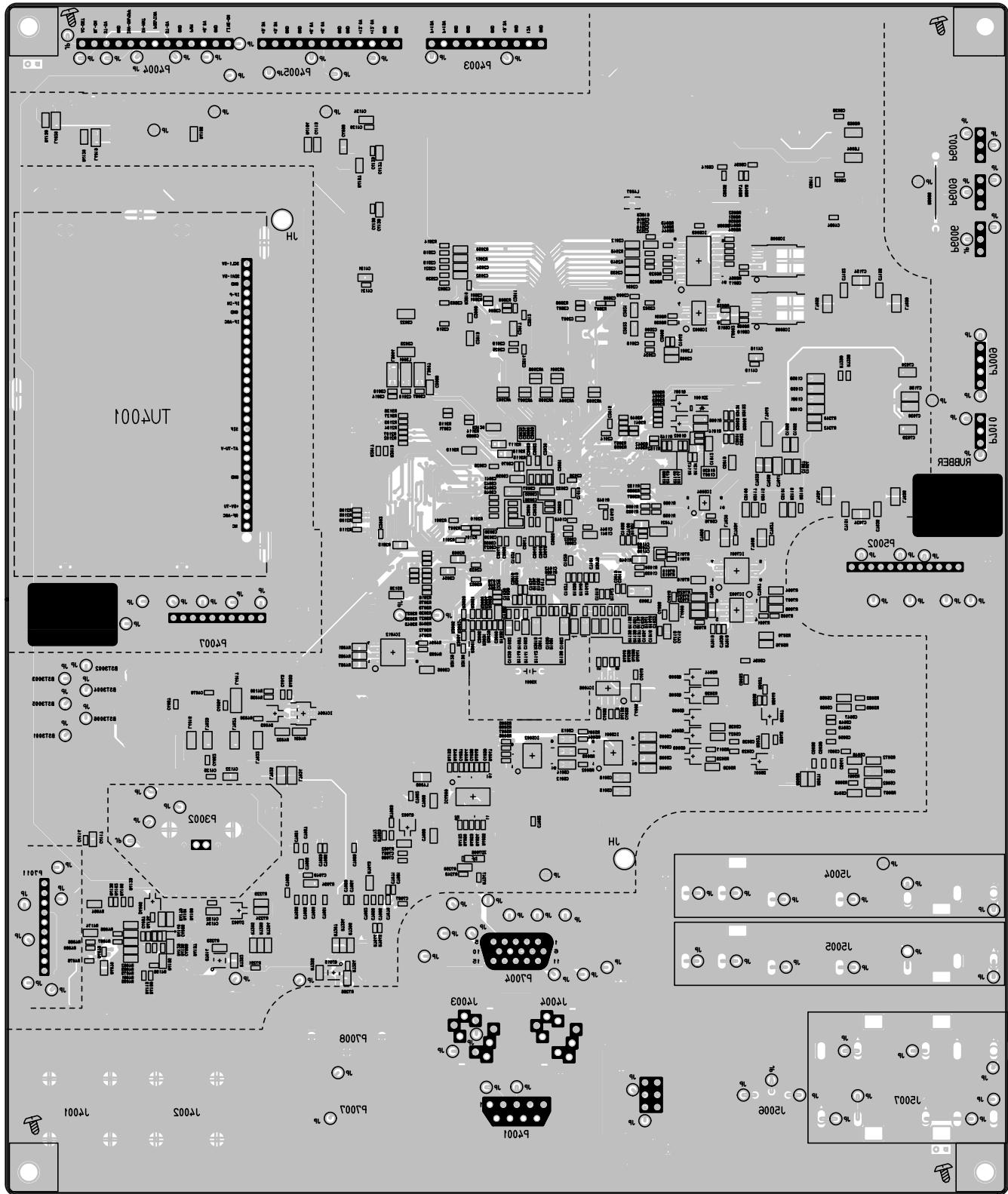
PRINTED CIRCUIT BOARDS

MAIN(TOP)



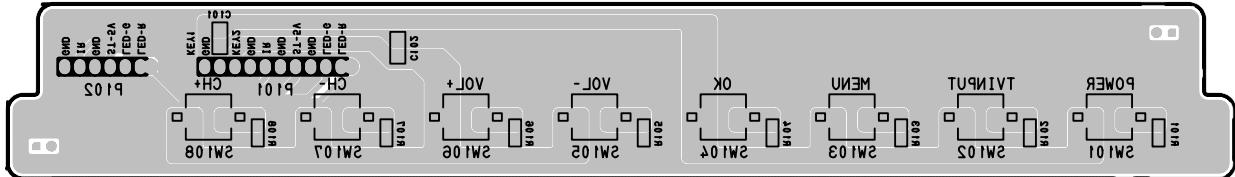
PRINTED CIRCUIT BOARDS

MAIN(BOTTOM)

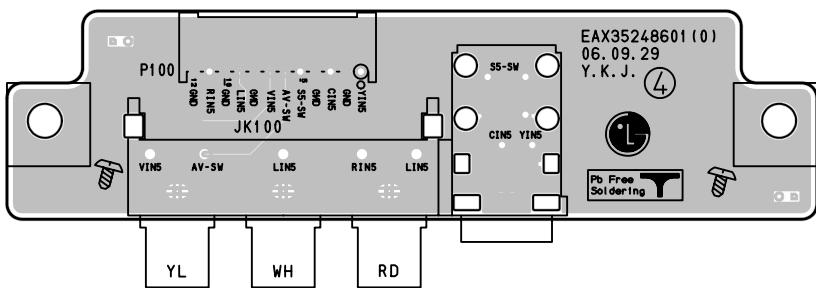


PRINTED CIRCUIT BOARDS

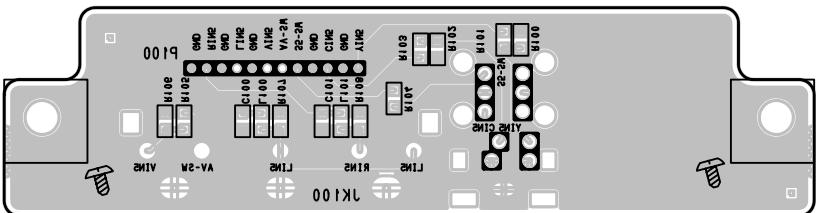
CONTROL



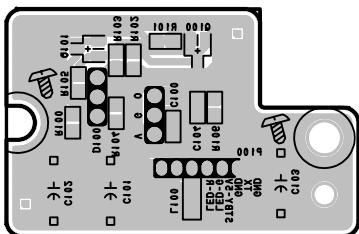
SIDE A/V(TOP)



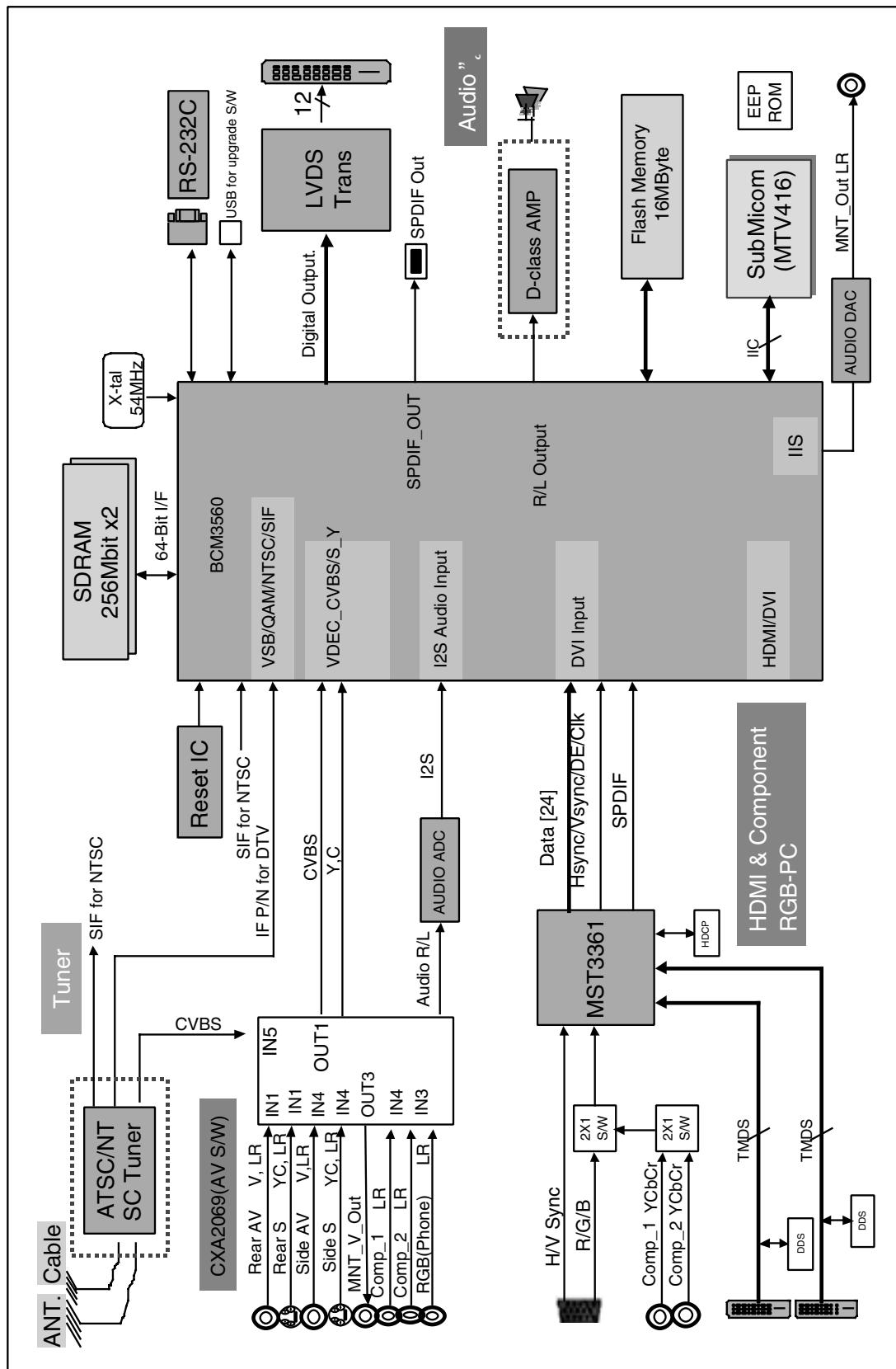
SIDE A/V(BOTTOM)



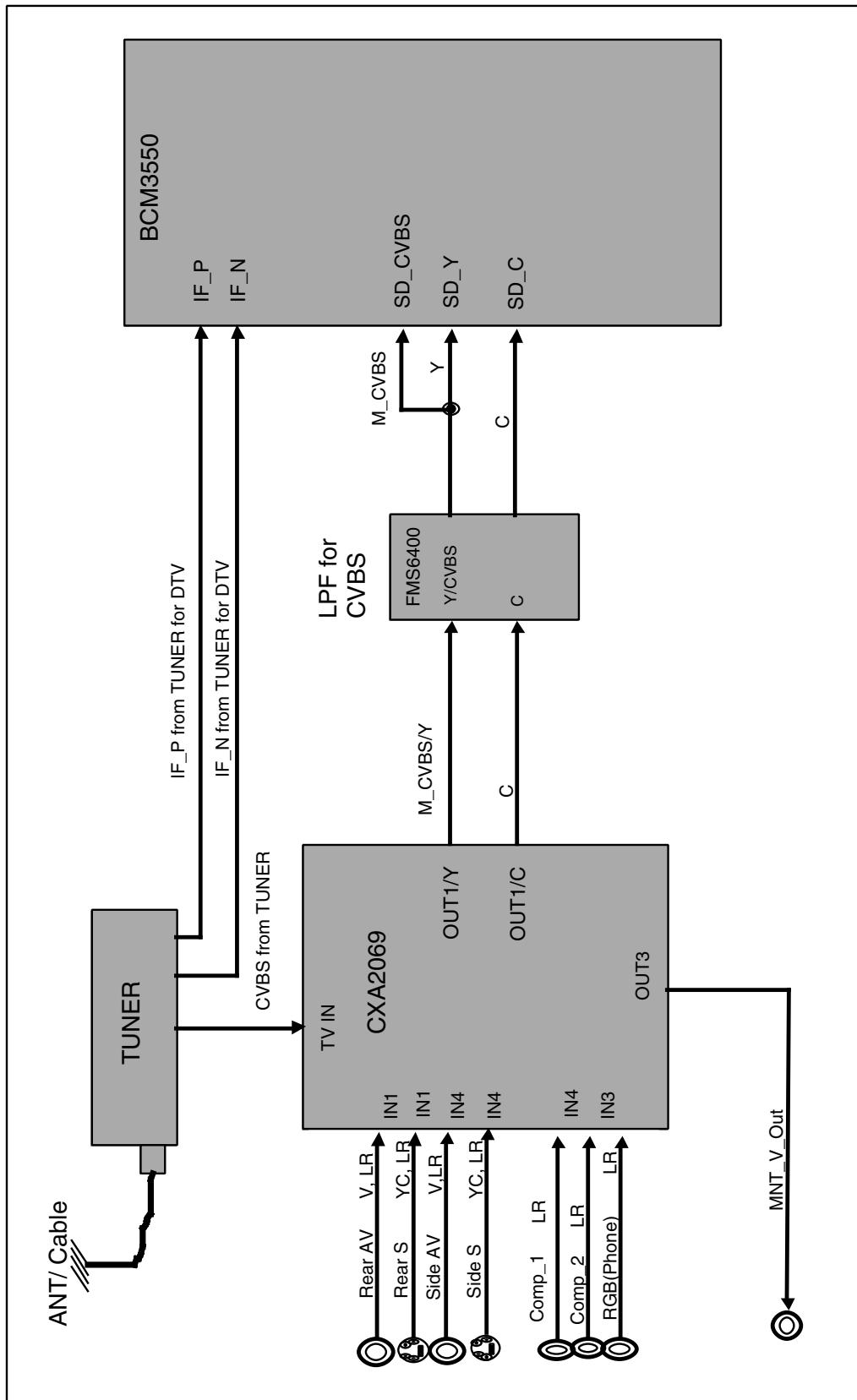
PRE-AMP



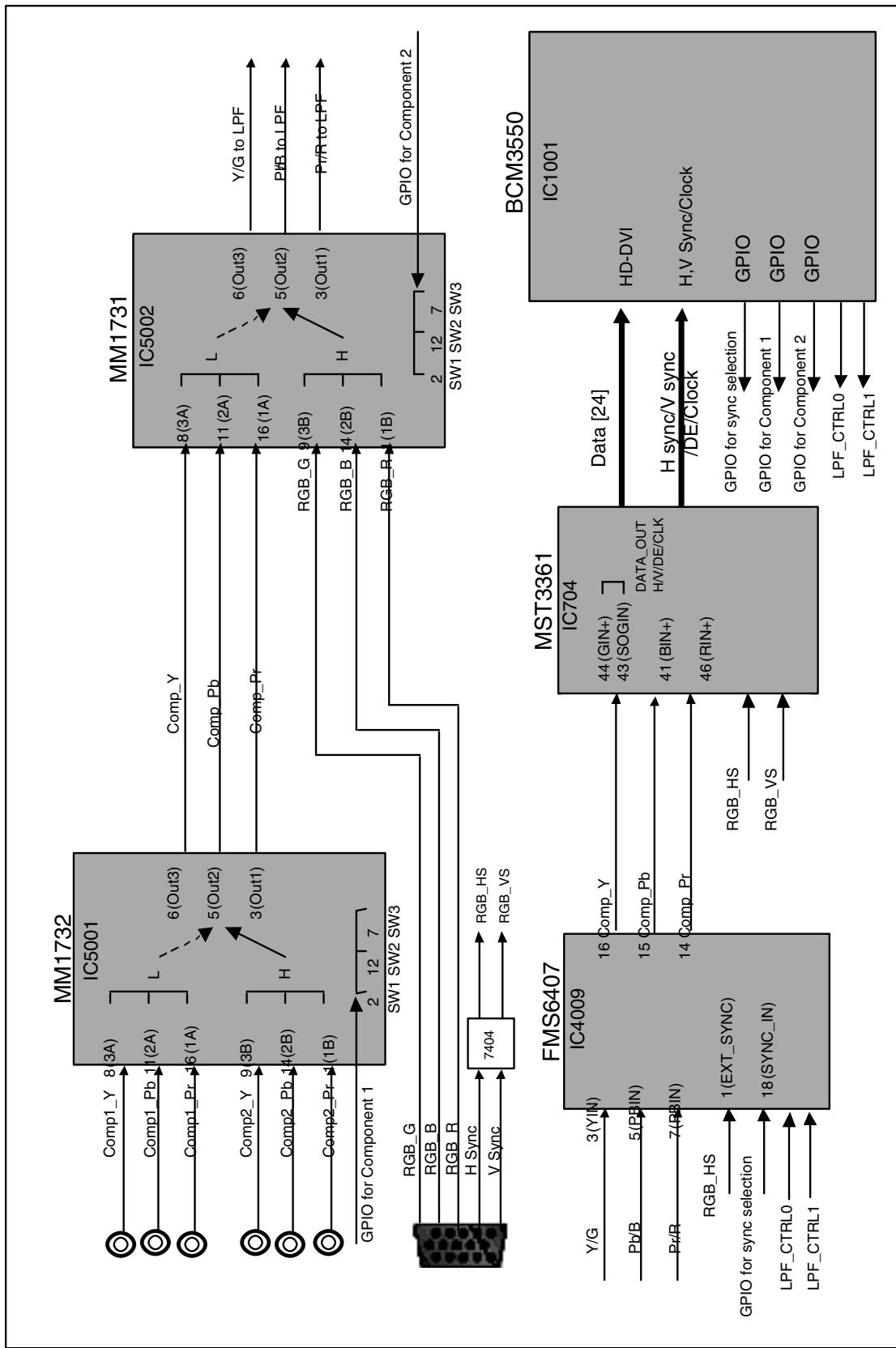
BLOCK DIAGRAM



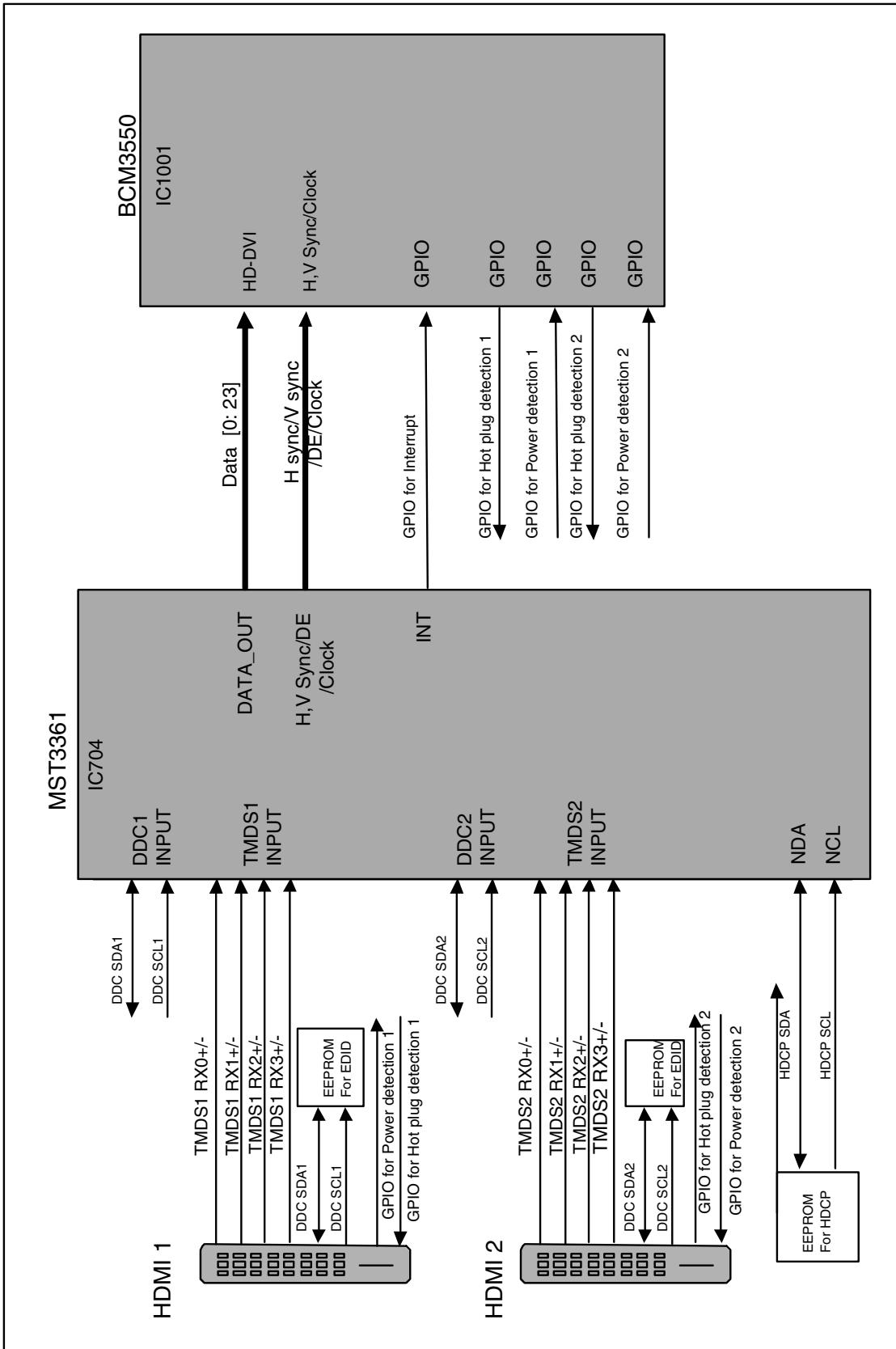
BLOCK DIAGRAM



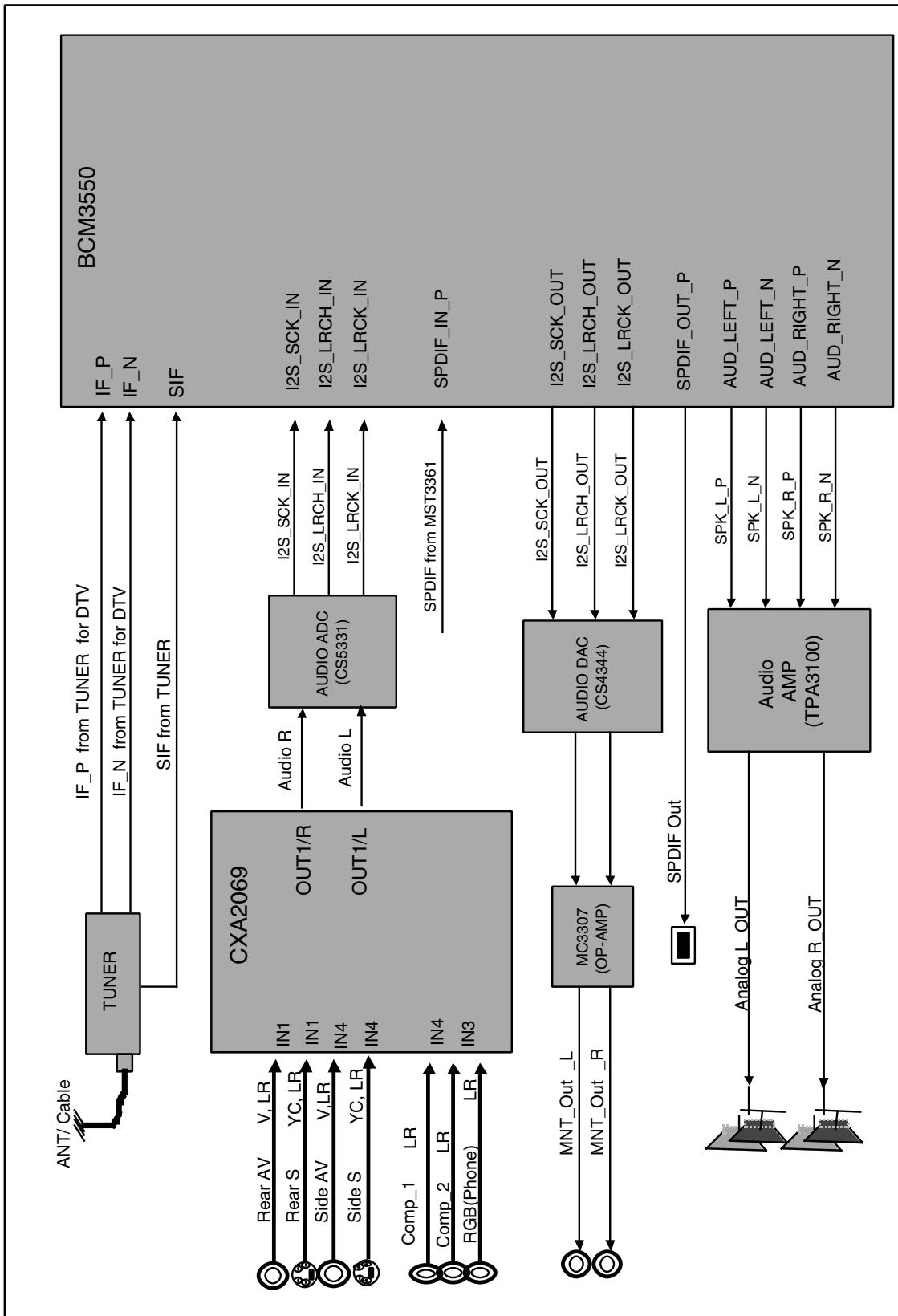
BLOCK DIAGRAM



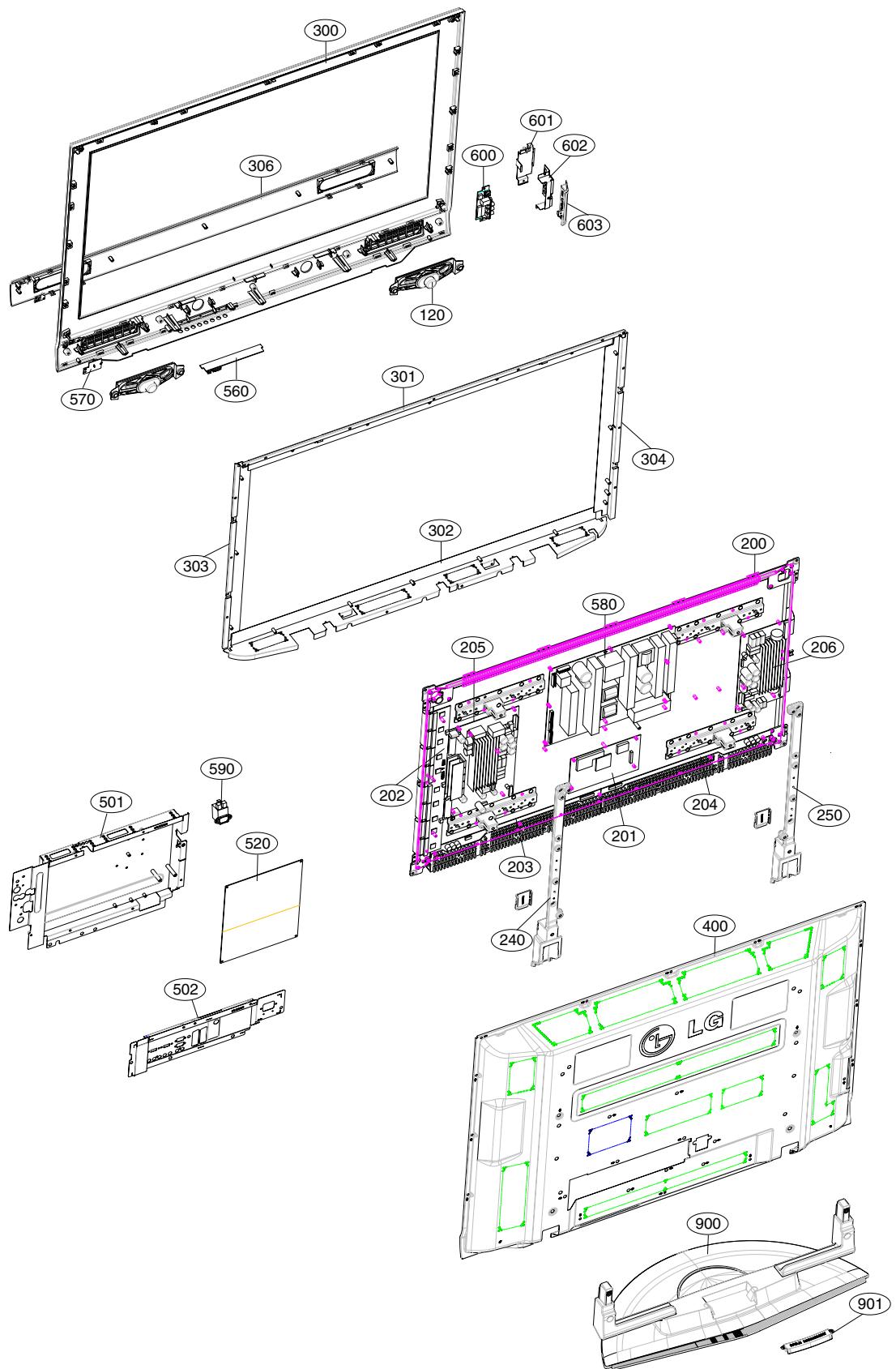
BLOCK DIAGRAM



BLOCK DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	Part No.	Description
120	EAB33775101	Speaker,Full Range EN1562C-6712 ND 10W 8OHM 82DB 100HZ
△ 200	EAJ36483201	PDP,Module-XGA PDP42X40201.ADLGB XGA 42INCH 1024X768 16/9 PDP DIVISION
201	6871QCH089A	PCB Assembly,6871QCH089A CTRL ASS'Y 42 X4 PDP DIVISION
202	6871QDH127A	PCB Assembly,6871QDH127A YDRV ASS'Y 42 X4 PDP DIVISION
203	6871QLH072A	PCB Assembly,6871QLH072A XRLT ASS'Y 42 X4 XL PDP DIVISION
204	6871QRH082A	PCB Assembly,6871QRH082A XRRT ASS'Y 42 X4 XR PDP DIVISION
205	6871QYH063A	PCB Assembly,6871QYH063A YSUS ASS'Y 42 X4 2L PDP DIVISION
206	6871QZH067A	PCB Assembly,6871QZH067A ZSUS ASS'Y 42 X4 2L PDP DIVISION
240	AJJ31584103	Supporter Assembly,42PC5 SUPP.VETICAL R ASSY SKD
250	AJJ31584104	Supporter Assembly,42PC5 SUPP.VETICAL L ASSY SKD
△ 300	ABJ31583108	Cabinet Assembly,42PC5D-UC SKD WITHOUT BRACKET (LGERS LOCAL)
301	AJJ31583602	Supporter Assembly,42PC5 SUPP.FILTER TOP SKD
302	AJJ31583702	Supporter Assembly,42PC5 SUPP.FILTER BOTTOM SKD
303	AJJ31583802	Supporter Assembly,42PC5 SUPP.FILTER SIDE R SKD
304	AJJ31583902	Supporter Assembly,42PC5 SUPP.FILTER SIDE L SKD
306	ABA31820104	Bracket Assembly,SPEAKER 42PC5 - SHEET TYPE ASSY SKD FOR RS LOCAL
△ 400	ACQ31583503	Cover Assembly,Rear - .42 SKD
501	AGU31681112	Plate Assembly,PLATE TUNER BOT SMALL, 42PC5_PACIFIC(BCM,D2A) FOR CKD
	AGU31681102	Plate Assembly,PLATE TUNER BOT SMALL, PACIFIC2/BCM/D2A
502	AGU31680918	Plate Assembly,42PC5D-UC CKD
	AGU31680903	Plate Assembly,PLATE TUNER COVER SMALL, D2A/BCM/PACIFIC
520	EBR35261403	PCB Assembly,Main PA73E 42PC5D-UC KUSLLMR Broadcom CKD
	EBR35261401	PCB Assembly,Main PA73E 42PC5D-UC AUSLLHX Broadcom
	EBR35261405	PCB Assembly,Main PA73E 42PC5DC-UC SUSLLJR Broadcom SKD COMMERCIAL
560	EBR35256003	PCB Assembly,Sub PA73E 42PC5D-UC KUSLLMR Local key Broadcom CKD
	EBR35256001	PCB Assembly,Sub PA73E 42PC5D-UC AUSLLHX Local key Broadcom
570	EBR35255803	PCB Assembly,Sub PA73E 42PC5D-UC KUSLLMR Preamp + Power LED Broadcom CKD
	EBR35255802	PCB Assembly,Sub PA73E 42PC5D-UC SUSLLJR Preamp + Power LED Broadcom SKD
△ 580	EAY32808901	SMPS,AC/DC YPSUJ014A 100VTO240V 400W 50 TO 60HZ UL/CSA/CE/TUV
590	EAM35012703	Filter,AC Line IF2-N06CEWL2 5.3mH 250VAC 6A 0.22uF 1000pF
600	EBR35255003	PCB Assembly,Sub PA73E 42PC5D-UC KUSLLMR SIDE A/V CKD
	EBR35255002	PCB Assembly,Sub PA73E 42PC5D-UC SUSLLJR SIDE A/V SKD
601	MJH32554901	Supporter,PRESS SBHG 1 GUIDE EGI 42PC5, SUPP. SIDE AV
602	MGJ32369301	Plate,Shield PRESS SPTE 0.3 SHIELD SPTE 42PC5, SHIELD CASE SIDE AV
603	ABA31583302	Bracket Assembly,SIDE AV 42PC5D-ZN AB EUROPASS
△ 900	AAN31626703	Base Assembly,42PC5 - FIXED STAND FOR LGERS
901	MCK32604801	Cover,MOLD ABS 42PC5 ABS CABLE MANAGEMENT

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;	CC, CX, CK, CN : Ceramic	RD : Carbon Film
	CQ : Polyester	RS : Metal Oxide Film
	CE : Electrolytic	RN : Metal Film

RUN DATE : 2007.4.16

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
IC					
IC1001	0IPRP00702A	BCM3550KPB5G 1.14VTO1.26V,3.1	Q4006	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC2002	0IMMRIH038B	HYB25D(C)256160CE-5 256MBIT 4	Q4007	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC2003	0IMMRIH038B	HYB25D(C)256160CE-5 256MBIT 4	Q4008	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC3001	EAN30267601	TPS2052BDRG4 2.7TO5.5 3MSEC 1	Q4009	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC4001	0IPRP00009A	ICL3232CBNZ 3VTO5.5V - SSOP R	Q4010	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC4003	0IPMGA0010A	AZ1117H-3.3 4.75TO10V 3.3V 0W	Q5004	OTRIH80002A	2SA1530A-T112-1R PNP -6V -60V -50V
IC4004	0IKE702900G	KIA7029AF -0.3TO15V 2.9V 500M	Q5005	OTRIH80002A	2SA1530A-T112-1R PNP -6V -60V -50V
IC4006	0IPRPFA015B	FMS6400CS1X,LF 4.75VTO5.25V,0	Q5006	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC4007	0ISTLPH026A	74LVC14APW 1.2TO3.6V 0.01mA S	Q5007	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC4008	0IPMGS1006B	SC1566I5M25TRT 2.2V~5.5V 1.2V	Q5009	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC4010	0IKE702900G	KIA7029AF -0.3TO15V 2.9V 500M	Q5010	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC4011	0IMCRRH001A	BA033FP-E2 4.3TO25V 3.3V 1W T	Q5011	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC4012	0IMCRAL021A	AT24C512W-10SU-2.7 512KBIT 65	Q5012	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC4013	0IMCRSH001A	PQ05DZ1U 6TO16V 5V 8W D2PAK R	Q5013	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC4014	0IMCRAL006A	AT24C16AN-10SU-2.7 16KBIT 2KX	Q5014	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC4016	EAN32662801	KA7809ERTM 35V to 40V 9V 1W D	Q5015	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC4017	EAN31513601	SC4519STRT 2.6V to 16V 0.8V	Q5016	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC4018	0IPMG78391A	SC2595STR 2.3TO5V 0 0W SOIC R	Q5017	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC5001	EAN30744301	MM1732XVBE 4.5TO9.5 50NSEC 50	Q7002	OTRIH80003A	RT1N141C-T112-1 NPN 10V 50V
IC5002	EAN30744401	MM1731XVBE 4.0TO9.5 50NSEC 50	Q7003	OTRIH80003A	RT1N141C-T112-1 NPN 10V 50V
IC5003	0ISO206900A	CXA2069Q 8.5TO9.5V - - 1.3W Q	Q7005	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC5004	0IPRPCI016A	CS4344-CZZR 4.75TO5.25V 3TO3.	Q7009	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC6004	0IMCRTH002A	THC63LVD103 3VTO3.6V 1W TQFP	Q7011	OTRIY80001A	2SC3052 NPN 6V 50V 50V 200MA
IC7001	0ICB533100A	CS5331A-KSR 4.75TO5.25V 48KHZ	Q7012	OTRIH80003A	RT1N141C-T112-1 NPN 10V 50V
IC7002	0ISTL00029A	MC33078DR2G +-5TO+-18V 2mV 0.	Q7013	OTRIH80003A	RT1N141C-T112-1 NPN 10V 50V
IC7004	0IPRP00696A	MST3361M-LF-110 3.3V_2.5V 0HZ	Q7014	0TR830009BA	FET,BSS83
IC7005	0IMMRCS012B	CAT24WC08W-T(MST3000) 8KBIT 1	Q7015	0TR830009BA	FET,BSS83
IC7008	0IPH740800H	74F08D 4.5TO5.5V 12.9mA AND G	DIODE		
IC7010	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 256x	D100	0DL200000CA	LED,DIP SAM5670(DL-2LRG)
IC7012	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 256x	D4001	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.2V
IC7013	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 256x	D4002	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.2V
IC7015	0IPRP00623A	CM2021-00TR 1VTO5.5V,0VTO0V,0	D4003	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4
IC7016	0IPRP00623A	CM2021-00TR 1VTO5.5V,0VTO0V,0	D4005	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4
IC7017	0IPRP00700A	TPA3100D2PHPR 10TO26V . . 20W	D4006	0DL233309AC	LED,Chip SAM2333
TRANSISTOR			D4007	0DR340009AA	MBRS340 525MV 40V 4A 0SEC OF 0
Q100	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA	D4008	0DSIH00018A	ENKMC2837-T112 1.2V 85V
"	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA	D5001	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4
Q1001	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA	D5002	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4
Q1002	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA	D5015	0DZRM00178A	Zener,UDZS5.1B 5.1V 4.98TO5.2V 80OHM
Q101	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA	D7001	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4
"	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA	D7002	0DSIH00028A	MC2838-T112-1 1.2V 75V 300MA 4
Q4001	0TRIH80002A	2SA1530A-T112-1R PNP -6V -60V -50V	D7003	0DZRM00218A	Zener,UDZS8.2B 8.2V 8.02TO8.36V 30OH
Q4003	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA	D7004	0DZRM00218A	Zener,UDZS8.2B 8.2V 8.02TO8.36V 30OH
Q4004	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA	ZD1001	0DZDI00078A	Zener,BZT52C3V3S-F 3.3V 3.1TO3.5V 95
Q4005	0TRIY80001A	2SC3052 NPN 6V 50V 50V 200MA	CAPACITOR		
			C100	0CH5331K416	0805N331J500LT 330pF 5% 50V C

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C100	0CH5101K416	C2012C0G1H101JT 100pF 5% 50V	C1061	0CH2122K516	0805B122K500CT 1.2nF 10% 50V
C1001	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16	C1062	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C1007	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C1063	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C1008	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C1064	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1009	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C1065	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+8
C101	0CE4763F618	ESF476M016T1A5E05G 47uF 20% 1	C2001	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C101	0CH5331K416	0805N331J500LT 330pF 5% 50V C	C2002	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C1010	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2003	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16
C1011	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2004	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16
C1012	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X	C2005	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+8
C1016	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+8	C2006	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C1017	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2007	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C1018	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2008	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C1019	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2009	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C102	0CE4763F618	ESF476M016T1A5E05G 47uF 20% 1	C2010	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C1020	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2011	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1021	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2012	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25V
C1022	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2013	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25V
C1024	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2014	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C1025	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C2015	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C1027	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2016	0CK272CK46A	0603B272J500CT 2.7nF 10% 50V
C1028	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+8	C2017	0CK272CK46A	0603B272J500CT 2.7nF 10% 50V
C1029	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2018	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7
C103	0CE4763F618	ESF476M016T1A5E05G 47uF 20% 1	C2019	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7
C1030	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2020	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7
C1032	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2021	0CC471CK41A	C1608C0G1H471JT 470pF 5% 50V
C1033	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2022	0CC471CK41A	C1608C0G1H471JT 470pF 5% 50V
C1034	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+8	C2023	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1036	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C2024	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7
C1037	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C2025	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7
C1038	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C2026	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C1039	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2500	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C104	0CH6330K416	C2012C0G1H330JT 33p 5% 50V C0	C2501	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1040	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2502	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1041	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+8	C2503	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1042	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2504	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1043	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2505	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1044	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2506	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1045	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2507	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1046	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2508	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1050	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C2509	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1051	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2510	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1052	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2511	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1053	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C2512	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1054	0CK103CK56A	0603B103K500CT 10nF 10% 50V X	C2513	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1055	0CK103CK56A	0603B103K500CT 10nF 10% 50V X	C2514	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1056	0CK103CK56A	0603B103K500CT 10nF 10% 50V X	C2515	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1057	0CK103CK56A	0603B103K500CT 10nF 10% 50V X	C2516	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1058	0CH2122K516	0805B122K500CT 1.2nF 10% 50V	C2517	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1059	0CH2122K516	0805B122K500CT 1.2nF 10% 50V	C2518	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C1060	0CH2122K516	0805B122K500CT 1.2nF 10% 50V	C2519	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C2520	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C3049	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7
C2521	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C3050	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C2522	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C3051	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C2600	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C3052	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7
C2601	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C3053	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+8
C2602	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C3054	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+8
C2603	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C3055	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C2604	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C3056	0CE336WD6D8	RC1A336M05005VR 33uF 20% 10V
C2605	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C3057	0CK106DC67A	JMK212JB106MG-T 10uF 20% 6.3V
C2606	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C3058	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+8
C2607	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C3059	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C3005	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+8	C3060	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7
C3007	0CC080CK11A	C1608C0G1H080DT 8pF 0.5PF 50V	C3061	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C3008	0CC080CK11A	C1608C0G1H080DT 8pF 0.5PF 50V	C3062	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C3012	0CC150CK41A	C1608C0G1H150JT 15pF 5% 50V C	C3063	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7
C3013	0CC150CK41A	C1608C0G1H150JT 15pF 5% 50V C	C3064	0CC150CK41A	C1608C0G1H150JT 15pF 5% 50V C
C3014	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C3065	0CE336WD6D8	RC1A336M05005VR 33uF 20% 10V
C3015	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C3066	0CK106DC67A	JMK212JB106MG-T 10uF 20% 6.3V
C3016	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C3067	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C3017	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C3068	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+8
C3018	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C4001	0CK334CF56A	C1608X7R1C334KT 330nF 10% 16V
C3019	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C4002	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C3020	0CE336WD6D8	RC1A336M05005VR 33uF 20% 10V	C4003	0CK334CF56A	C1608X7R1C334KT 330nF 10% 16V
C3021	0CE336WD6D8	RC1A336M05005VR 33uF 20% 10V	C4004	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25V
C3022	0CK106DC67A	JMK212JB106MG-T 10uF 20% 6.3V	C4005	0CK334CF56A	C1608X7R1C334KT 330nF 10% 16V
C3023	0CK106DC67A	JMK212JB106MG-T 10uF 20% 6.3V	C4006	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C3024	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4007	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C3025	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7	C4008	0CC270CK41A	C1608C0G1H270JT 27pF 5% 50V C
C3026	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C4010	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C3027	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+8	C4011	0CC270CK41A	C1608C0G1H270JT 27pF 5% 50V C
C3028	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4012	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16
C3029	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C4014	0CC221CK41A	C1608C0G1H221JT 220pF 5% 50V
C3030	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C4015	0CC221CK41A	C1608C0G1H221JT 220pF 5% 50V
C3031	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7	C4016	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C3032	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+8	C4017	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V
C3033	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4018	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7
C3034	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16V	C4019	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V
C3035	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4020	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C3036	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C4021	0CH2474F566	0805B474K160CT 470nF 10% 16V
C3037	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16V	C4022	0CH2474F566	0805B474K160CT 470nF 10% 16V
C3038	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7	C4023	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16
C3039	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+8	C4024	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V
C3040	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X	C4025	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V
C3041	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4026	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C3042	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C4028	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C3043	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7	C4030	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V
C3044	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4032	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16
C3045	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C4033	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C3046	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7	C4034	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X
C3047	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4035	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C3048	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C4040	0CK104BF56A	C1005X7R104KET 100nF 10% 16V

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C4041	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16V	C4107	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C4043	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4108	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C4046	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4109	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+8
C4047	EAE30840201	4SVPC330M 330uF 20% 4V 2.32A	C4113	0CK104CK56A	0603B104K500CT 100nF 10% 50V
C4048	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4114	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C4049	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4115	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
C4050	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4116	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
C4051	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4117	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
C4052	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4118	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C4053	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4119	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C4054	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4120	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C4056	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4121	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C4058	EAE30840201	4SVPC330M 330uF 20% 4V 2.32A	C4122	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
C4062	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4123	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C4063	EAE30840401	25SVPD10M 10uF 20% 25V 1.5A -	C4124	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
C4064	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V	C4125	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C4065	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V	C4126	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C4066	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4127	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
C4067	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4128	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
C4068	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V	C4129	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
C4070	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4130	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C4071	0CE105WK6DC	MVK4.0TP50VC1M 1uF 20% 50V 5.	C4131	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
C4072	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4132	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C4073	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V	C4133	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
C4074	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16	C4134	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
C4077	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C	C4135	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C4078	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C	C4136	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
C4080	EAE30840201	4SVPC330M 330uF 20% 4V 2.32A	C4137	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C4082	0CE106WF6DC	MVK4.0TP16VC10M 10uF 20% 16V	C4138	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16
C4083	EAE30840301	10SVPC68M 68uF 20% 10V 1.97A	C4139	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16
C4084	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4140	0CK103CK56A	0603B103K500CT 10nF 10% 50V X
C4085	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16	C4141	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C4086	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4142	0CK103CK56A	0603B103K500CT 10nF 10% 50V X
C4087	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16	C4143	0CK225DD66A	LMK212JB225MG-T 2.2uF 20% 10V
C4088	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4144	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X
C4089	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16	C4145	0CK103CK56A	0603B103K500CT 10nF 10% 50V X
C4090	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C4146	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16
C4091	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C5001	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V
C4094	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C5002	0CK103CK56A	0603B103K500CT 10nF 10% 50V X
C4095	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C5003	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V
C4096	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C5004	0CK103CK56A	0603B103K500CT 10nF 10% 50V X
C4097	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C5005	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C4098	0CN475FH67A	TMK325BJ475MN-T 4.7uF 20% 25V	C5006	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C4099	0CK224CF56A	0603B224K160CT 220nF 10% 16V	C5007	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C4100	0CK153CK51A	0603B153K500CT 15nF 10% 50V Y	C5008	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C4101	0CC561CK41A	C1608C0G1H561JT 560pF 5% 50V	C5009	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C4102	0CK476FD67A	LMK325BJ476MM-T 47uF 20% 10V	C5010	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C4103	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C5011	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C4104	0CE336WD6D8	RC1A336M05005VR 33uF 20% 10V	C5012	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C4105	0CE336WD6D8	RC1A336M05005VR 33uF 20% 10V	C5013	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C4106	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C5014	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C5015	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7	C5074	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16V
C5016	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7	C5075	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16V
C5019	0CK103CK56A	0603B103K500CT 10nF 10% 50V X	C5076	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C5020	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2uF 20% 50	C5077	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3uF 20% 50
C5022	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C5078	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3uF 20% 50
C5025	0CH2474F566	0805B474K160CT 470nF 10% 16V	C5079	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16V
C5026	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V	C5080	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3uF 20% 50
C5027	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V	C5102	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
C5028	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C5103	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
C5029	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C5104	0CE105WK6DC	MVK4.0TP50VC1M 1uF 20% 50V 5.
C5030	0CH8226F691	MVK5.0TP16VC22M 22uF 20% 16V	C5105	0CE105WK6DC	MVK4.0TP50VC1M 1uF 20% 50V 5.
C5031	0CH8226F691	MVK5.0TP16VC22M 22uF 20% 16V	C5106	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2uF 20% 50
C5032	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C5107	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C5033	0CE476WH6DC	MVK8.0TP25VC47M 47uF 20% 25V	C5108	0CH2474F566	0805B474K160CT 470nF 10% 16V
C5034	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C5109	0CH2474F566	0805B474K160CT 470nF 10% 16V
C5035	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16V	C6010	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V
C5036	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C6011	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C5037	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V	C6014	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C5038	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16V	C6021	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V
C5039	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C6022	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C5040	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V	C6023	0CK102BK56A	0402B102K500CT 1nF 10% 50V X7
C5041	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C6024	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C5042	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16V	C6025	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V
C5044	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16	C6028	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C5045	0CK222CK56A	0603B222K500CT 2.2nF 10% 50V	C6031	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C5046	0CK222CK56A	0603B222K500CT 2.2nF 10% 50V	C6032	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V
C5047	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C6033	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V
C5048	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C6034	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C5049	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C6035	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C5050	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7001	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V
C5051	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7002	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V
C5052	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V	C7003	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V
C5053	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7007	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V C
C5054	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V	C7015	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C5055	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2uF 20% 50	C7019	0CK224CF56A	0603B224K160CT 220nF 10% 16V
C5056	0CK222CK56A	0603B222K500CT 2.2nF 10% 50V	C7020	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C5057	0CE105WK6DC	MVK4.0TP50VC1M 1uF 20% 50V 5.	C7021	0CK225DH94A	2.2uF -20TO+80% 25V
C5058	0CK222CK56A	0603B222K500CT 2.2nF 10% 50V	C7022	0CK224CF56A	0603B224K160CT 220nF 10% 16V
C5059	0CK222CK56A	0603B222K500CT 2.2nF 10% 50V	C7023	0CK104CK56A	0603B104K500CT 100nF 10% 50V
C5060	0CK222CK56A	0603B222K500CT 2.2nF 10% 50V	C7024	0CK474DK56A	UMK212BJ474KG-T 470nF 10% 50V
C5061	0CH2474F566	0805B474K160CT 470nF 10% 16V	C7025	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16
C5062	0CH2474F566	0805B474K160CT 470nF 10% 16V	C7026	0CK104CK56A	0603B104K500CT 100nF 10% 50V
C5063	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2uF 20% 50	C7027	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C5064	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7028	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C5065	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16V	C7029	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C5066	0CE105WK6DC	MVK4.0TP50VC1M 1uF 20% 50V 5.	C7030	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C5068	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7031	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C5070	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16V	C7032	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C5071	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16V	C7033	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C5072	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16V	C7034	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C5073	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7035	0CK103CK56A	0603B103K500CT 10nF 10% 50V X

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C7036	0CK103CK56A	0603B103K500CT 10nF 10% 50V X	C7087	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C7037	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16	C7088	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C
C7038	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V C	C7089	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C
C7039	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7	C7090	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C7040	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7	C7091	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V
C7041	0CK225DH94A	2.2uF -20TO+80% 25V	C7092	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C7042	0CK224CF56A	0603B224K160CT 220nF 10% 16V	C7095	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V
C7043	0CK224CF56A	0603B224K160CT 220nF 10% 16V	C7096	0CH5220K416	0805N220J500LT 22pF 5% 50V C0
C7044	0CE106WH6DC	MVK5.0TP25VC10M 10uF 20% 25V	C7097	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V
C7045	0CE107WK6DC	MVK10TP50VC100M 100uF 20% 50V	C7098	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V
C7046	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V	C7099	0CH5220K416	0805N220J500LT 22pF 5% 50V C0
C7047	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V	C7100	0CC150CK41A	C1608C0G1H150JT 15pF 5% 50V C
C7048	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V	C7108	0CC150CK41A	C1608C0G1H150JT 15pF 5% 50V C
C7049	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7109	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C7050	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7110	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V
C7051	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7141	0CK103CK56A	0603B103K500CT 10nF 10% 50V X
C7052	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V	C7142	0CK104CK56A	0603B104K500CT 100nF 10% 50V
C7053	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7143	0CK104CK56A	0603B104K500CT 100nF 10% 50V
C7054	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V	C7144	0CK103CK56A	0603B103K500CT 10nF 10% 50V X
C7055	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V	C7150	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C7056	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V	C7151	0CK104CK56A	0603B104K500CT 100nF 10% 50V
C7057	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7152	0CK104CK56A	0603B104K500CT 100nF 10% 50V
C7058	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7153	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C7059	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7154	0CK474DK56A	UMK212BJ474KG-T 470nF 10% 50V
C7060	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7155	0CK104CK56A	0603B104K500CT 100nF 10% 50V
C7061	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7156	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7
C7062	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7157	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V
C7063	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V	C7158	0CE227WJ6DC	MVK10TP35VC220M 220uF 20% 35V
C7064	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7159	0CE227WJ6DC	MVK10TP35VC220M 220uF 20% 35V
C7065	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V	C7160	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C7066	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C7161	0CK104BF56A	C1005X7R104KET 100nF 10% 16V
C7067	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	CONNECTOR & WAFER		
C7068	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C1	6631900010M	Harness,Single SMH200-12P
C7069	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C10	6631T39004D	Harness,Single 3.96MM 9P
C7070	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C11	6631V12031G	Harness,Single 1.25MM 4P
C7071	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C12	6631V39013N	Harness,Single 3.96MM 8P
C7072	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C13	68509A0004E	Cable,Assembly RCA JACK
C7073	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25V	C14	EAD35682502	Harness,Single LVDS PDP STANDARD
C7074	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25V	C2	6631900012C	Harness,Single 2.50MM 10P
C7075	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25V	C3	6631900018H	Harness,Single 3P SPK LEFT
C7076	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25V	C4	6631900027C	Harness,Single 2.50MM 13P
C7077	0CK153CK56A	0603B153K500CT 15nF 10% 50V X	C5	6631900065B	Harness,Single 2.50MM 12P
C7078	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25V	C6	6631900099A	Harness,Single 2.50MM 3P
C7079	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25V	C7	6631900100D	Harness,Single 2.50MM 4P
C7080	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V C	C8	6631900108C	Harness,Single 2.00MM 6P
C7081	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	C9	6631T25024N	Harness,Single 2.50MM 4P
C7082	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	P100	6630V90142A	Connector,Wafer 6P 2.54MM
C7083	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	P100	6602T20009L	Connector,Wafer SMAW200-12P
C7084	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V	P100	6602T20009E	Connector,Wafer SMAW200-06P
C7085	0CK104BF56A	C1005X7R104KET 100nF 10% 16V	P101	6602T20009J	Connector,Wafer SMAW200-10P

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
P102	6602T20009E	Connector,Wafer SMAW200-06P	AR2008	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W
P3002	EAG31022001	Connector,USB UB01123-4HHS-4F	AR2009	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W
P4001	6630G70017A	Connector,DSUB 9P 2.77MM	AR2011	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W
P4003	6602T25008J	Connector,Wafer SMW250-10P	AR2012	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W
P4004	6602T25008M	Connector,Wafer SMW250-13P	AR2013	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W
P4005	6602T25008L	Connector,Wafer SMW250-12P	AR2014	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W
P4007	6602T20008J	Connector,Wafer SMW200-10P	AR2016	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W
P5002	6602T20008L	Connector,Wafer SMW200-12P	AR2017	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W
P6001	6630V90116A	Connector,Wafer FI-X30SSL-HF 30P	AR2200	EBC32260405	MNR04M0APJ680 68OHM 5% 1/16W 4
P7002	6602T12005C	Connector,Wafer 12505WR-04A00 4P	AR2201	EBC32260405	MNR04M0APJ680 68OHM 5% 1/16W 4
P7004	6630G70016A	Connector,DSUB 15P 2.29MM	AR2202	EBC32260405	MNR04M0APJ680 68OHM 5% 1/16W 4
P7009	6602T25008C	Connector,Wafer SMW250-04P	AR2203	EBC32260405	MNR04M0APJ680 68OHM 5% 1/16W 4
P7010	6602T25008B	Connector,Wafer SMW250-03P	AR2204	EBC32260405	MNR04M0APJ680 68OHM 5% 1/16W 4
INDUCTOR			AR2205	EBC32260405	MNR04M0APJ680 68OHM 5% 1/16W 4
L100	OLC1032101A	Inductor,FI-C3216-103KJT 10UH 10% - 5	AR2206	EBC32260405	MNR04M0APJ680 68OHM 5% 1/16W 4
L100	OLC0233002A	Inductor,FI-B2012-332KJT 3.3UH 10% -	AR2207	EBC32260405	MNR04M0APJ680 68OHM 5% 1/16W 4
L101	OLC0233002A	Inductor,FI-B2012-332KJT 3.3UH 10% -	AR2208	EBC32260405	MNR04M0APJ680 68OHM 5% 1/16W 4
L3002	EAP35756201	Inductor,2.7UH 5% 250V	AR2209	EBC32260405	MNR04M0APJ680 68OHM 5% 1/16W 4
L4002	OLCML00020B	Inductor,MLI-201209-6R8K 6.8UH 10% 0V	AR2210	EBC32260405	MNR04M0APJ680 68OHM 5% 1/16W 4
L4019	OLC2000005K	Inductor,FI-D2012-223KJT(CE) 22UH 10%	AR3021	0RJ1001C687	RCA86TRJ1K00 1KOHM 5% 1/16W 4 S
L4020	OLC2000005K	Inductor,FI-D2012-223KJT(CE) 22UH 10%	AR6001	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W
L4022	6140TBZ047B	Inductor,RLF7030T-3R3M4R1 3.3UH 20% 0	AR6002	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W
L7008	OLCML00020B	Inductor,MLI-201209-6R8K 6.8UH 10% 0V	AR6003	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W
L7020	OLCML00020B	Inductor,MLI-201209-6R8K 6.8UH 10% 0V	AR6004	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W
L7029	6140VR0008A	Inductor,SLF12575T-330M3R2 33UH 20% -	AR6005	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W
L7030	6140VR0008A	Inductor,SLF12575T-330M3R2 33UH 20% -	AR6006	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W
L7031	6140VR0008A	Inductor,SLF12575T-330M3R2 33UH 20% -	AR6007	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W
L7032	6140VR0008A	Inductor,SLF12575T-330M3R2 33UH 20% -	R100	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012
JACK			R1006	0RJ2000D477	MCR03EZPF201 200OHM 1% 1/10W 16
J4002	6612J10024A	Jack,Complex KCN-BT-0-0056 4P	R1008	0RJ102D677	MCR03EZPJ100 10OHM 5% 1/10W 160
J4003	6612F00099A	Jack,Phone PEJ024-01 1P 4P	R101	0RH1201D622	MCR10EZHZJ122 1.2KOHM 5% 1/8W 20
J4004	6612F00099A	Jack,Phone PEJ024-01 1P 4P	R101	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012
J5004	6612J10031A	Jack,RCA PPJ209-02 14.0MM	R1014	0RJ0511D677	MCR03EZPJ5R1 5.1OHM 5% 1/10W 16
J5005	6612J10031A	Jack,RCA PPJ209-02 14.0MM	R1015	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W 160
J5006	6612F00024C	Jack,DIN PSJ014-01 SOCKET 4P	R1016	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W 160
J5007	6612J10006K	Jack,RCA PPJ150-08 14.0MM	R1017	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W 160
JK100	6612J10033A	Jack,Complex PMJ016-13 13P	R1018	0RJ0562D477	MCR03EZPF560 56OHM 1% 1/10W 160
JK100	EAG32151101	Jack,Fiber Optic TOX177L(F,T) 3P	R1019	0RJ0562D477	MCR03EZPF560 56OHM 1% 1/10W 160
P7007	6612B00015C	Jack,DIN DC1R019WDH SOCKET 21P	R102	0RH3301D622	MCR10EZHZJ322 3.3KOHM 5% 1/8W 20
P7008	6612B00015C	Jack,DIN DC1R019WDH SOCKET 21P	R102	0RH4700D622	MCR10EZHZJ471 470OHM 5% 1/8W 201
RESISTOR			R1020	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
AR2001	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W	R1021	0RJ0562D477	MCR03EZPF560 56OHM 1% 1/10W 160
AR2002	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W	R103	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012
AR2003	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W	R103	0RH2002D622	MCR10EZHZJ203 20KOHM 5% 1/8W 201
AR2004	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W	R103	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012
AR2005	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W	R1030	0RH1504D622	MCR10EZHZJ155 1.5MOHM 5% 1/8W 20
AR2006	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W	R1032	0RH1504D622	MCR10EZHZJ155 1.5MOHM 5% 1/8W 20
AR2007	0RJ0222C692	MNR04 M0APJ 220 220OHM 5% 1/16W	R1034	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
			R1035	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
			R1036	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
R1037	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R1132	0RJ0752C678	MCR01MZPJ750 75OHM 5% 1/16W 100
R1038	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R1133	0RH1504D622	MCR10EZHJ155 1.5MOHM 5% 1/8W 20
R1039	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R1134	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R104	0RH7501D622	MCR10EZHJ752 7.5KOHM 5% 1/8W 20	R1135	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R104	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012	R1136	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W 160
R104	0RH4700D622	MCR10EZHJ471 470OHM 5% 1/8W 201	R1137	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W 160
R1040	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R1139	0RH1504D622	MCR10EZHJ155 1.5MOHM 5% 1/8W 20
R1041	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R1140	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R1042	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R1141	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W 160
R1044	0RH1504D622	MCR10EZHJ155 1.5MOHM 5% 1/8W 20	R1142	0RH1504D622	MCR10EZHJ155 1.5MOHM 5% 1/8W 20
R1045	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R1144	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/16W 1
R1046	0RJ4990D477	MCR03EZPF4990 499OHM 1% 1/10W 1	R1145	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/16W 1
R1047	0RH1504D622	MCR10EZHJ155 1.5MOHM 5% 1/8W 20	R1157	0RJ3601D677	MCR03EZPJ362 3.6KOHM 5% 1/10W 1
R1048	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R1158	0RJ3601D677	MCR03EZPJ362 3.6KOHM 5% 1/10W 1
R1049	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R1159	0RJ3601D677	MCR03EZPJ362 3.6KOHM 5% 1/10W 1
R105	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012	R1160	0RJ3601D677	MCR03EZPJ362 3.6KOHM 5% 1/10W 1
R105	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8W 20	R1161	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
R105	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012	R1162	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
R1050	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R2003	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W 1
R1051	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R2013	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R1054	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R2015	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R1056	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R2016	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R1057	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R2017	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R1058	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R2026	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100
R1059	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R2027	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100
R106	0RH1201D622	MCR10EZHJ122 1.2KOHM 5% 1/8W 20	R2102	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R106	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012	R2103	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R1060	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R2104	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R1061	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R2105	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R1062	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R2106	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R1063	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R2107	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R1064	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R2108	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R1065	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 16	R2109	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R1066	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 16	R2110	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R1067	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 16	R2512	0RJ0682C678	MCR01MZPJ680 68OHM 5% 1/16W 100
R1068	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 16	R2600	0RJ0682C678	MCR01MZPJ680 68OHM 5% 1/16W 100
R107	0RH2002D622	MCR10EZHJ203 20KOHM 5% 1/8W 201	R2601	0RJ0682C678	MCR01MZPJ680 68OHM 5% 1/16W 100
R1073	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R2602	0RJ0682C678	MCR01MZPJ680 68OHM 5% 1/16W 100
R1074	0RJ5600D677	MCR03EZPJ561 560OHM 5% 1/10W 16	R2603	0RJ0682C678	MCR01MZPJ680 68OHM 5% 1/16W 100
R1079	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R2604	0RJ0682C678	MCR01MZPJ680 68OHM 5% 1/16W 100
R108	0RH7501D622	MCR10EZHJ752 7.5KOHM 5% 1/8W 20	R2605	0RJ0682C678	MCR01MZPJ680 68OHM 5% 1/16W 100
R1080	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R2607	0RJ0682C678	MCR01MZPJ680 68OHM 5% 1/16W 100
R1081	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R2608	0RJ0682C678	MCR01MZPJ680 68OHM 5% 1/16W 100
R1083	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R2609	0RJ1500C678	MCR01MZPJ151 150OHM 5% 1/16W 10
R1084	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R2610	0RJ1500C678	MCR01MZPJ151 150OHM 5% 1/16W 10
R1085	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	R2611	0RJ0682C678	MCR01MZPJ680 68OHM 5% 1/16W 100
R1086	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	R2612	0RJ0682C678	MCR01MZPJ680 68OHM 5% 1/16W 100
R1087	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	R2613	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R1088	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/16W 1	R2614	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R1129	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/16W 1	R2615	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1
R1131	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/16W 1	R3001	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/16W 1

REPLACEMENT PARTS LIST

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LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
R4005	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10	R4089	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R4006	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10	R4090	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 16
R4009	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R4091	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 16
R4010	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R4092	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R4011	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R4093	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 100
R4015	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10W 16	R4094	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 100
R4016	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 10	R4096	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 16
R4018	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R4098	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10
R4019	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 16	R4099	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R4022	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10	R4100	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R4023	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10	R4101	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
R4026	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R4102	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10
R4028	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1	R4103	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 100
R4029	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1	R4105	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 100
R4030	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R4106	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10
R4032	0RJ6800D677	MCR03EZPJ681 680OHM 5% 1/10W 16	R4108	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 100
R4033	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1	R4109	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
R4039	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R4110	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W 1
R4040	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R4112	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1
R4041	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R4113	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10
R4048	0RJ4300D677	MCR03EZPJ431 430OHM 5% 1/10W 16	R4114	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10
R4049	0RJ3650D477	MCR03EZPF3650 365OHM 1% 1/10W 1	R4115	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W 1
R4053	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 100	R4123	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R4054	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 100	R4124	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R4055	0RJ2222C678	MCR01MZPJ220 22OHM 5% 1/16W 100	R4125	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R4057	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R4126	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R4058	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R4127	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W 1
R4059	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R4128	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W 1
R4060	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R4129	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R4061	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 16	R4130	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 16
R4062	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 16	R4131	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 16
R4065	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 16	R4132	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 16
R4066	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1	R4134	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10
R4067	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 16	R4135	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R4068	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 100	R4136	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R4069	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 100	R4137	0RJ6802D677	MCR03EZPJ683 68KOHM 5% 1/10W 16
R4070	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R4139	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R4071	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 16	R4140	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10
R4073	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 16	R4141	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R4074	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1	R4143	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10
R4075	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1	R4144	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
R4076	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 100	R4145	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
R4077	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 16	R4146	0RJ3302D677	MCR03EZPJ333 33KOHM 5% 1/10W 16
R4079	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 100	R4147	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
R4080	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1	R4148	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10
R4082	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 100	R4149	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 16
R4083	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 100	R4150	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 16
R4085	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 16	R4151	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 16
R4086	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10	R4155	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R4087	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 100	R4156	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012
R4088	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R4158	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
R4159	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R5053	0RJ3900D677	MCR03EZPJ391 390OHM 5% 1/10W 16
R4161	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5054	0RJ0822C678	MCR01MZPJ820 82OHM 5% 1/16W 100
R4162	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5055	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 16
R4163	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5057	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 1
R4164	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W 1	R5058	0RJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/10W 1
R4165	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W 1	R5059	0RJ0822C678	MCR01MZPJ820 82OHM 5% 1/16W 100
R4166	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 16	R5060	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
R4168	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5061	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
R4169	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5062	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 16
R4170	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5063	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1
R4171	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5064	0RJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/10W 1
R4172	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5065	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 16
R4174	0RJ1001D477	MCR03EZPF102 1KOHM 1% 1/10W 160	R5066	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 16
R4184	0RJ1001D477	MCR03EZPF102 1KOHM 1% 1/10W 160	R5067	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1
R4185	0RJ1001D477	MCR03EZPF102 1KOHM 1% 1/10W 160	R5068	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 1
R4186	0RJ1001D477	MCR03EZPF102 1KOHM 1% 1/10W 160	R5069	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W 1
R4190	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5070	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1
R4191	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5071	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 16
R4193	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1	R5072	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1
R4195	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 1	R5073	0RJ0752C678	MCR01MZPJ750 75OHM 5% 1/16W 100
R4196	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10	R5074	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 16
R5001	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R5075	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1
R5002	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5076	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W 160
R5003	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5077	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100
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R5005	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R5079	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10
R5006	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5080	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1
R5007	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5081	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 1
R5008	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5082	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
R5015	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10	R5083	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
R5020	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10	R5084	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
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R5027	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W 1	R5086	0RJ0752C678	MCR01MZPJ750 75OHM 5% 1/16W 100
R5029	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 1	R5087	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R5030	0RJ6800D677	MCR03EZPJ681 680OHM 5% 1/10W 16	R5088	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R5031	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 1	R5089	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
R5034	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 16	R5090	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 10
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R5036	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 10	R5093	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R5037	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R5094	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R5038	0RJ6800D677	MCR03EZPJ681 680OHM 5% 1/10W 16	R5095	0RJ0752C678	MCR01MZPJ750 75OHM 5% 1/16W 100
R5039	0RJ1501D477	MCR03EZPF152 1.5KOHM 1% 1/10W 1	R5096	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R5040	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100	R5097	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R5042	0RJ7500D677	MCR03EZPJ751 750OHM 5% 1/10W 16	R5099	0RJ0822C678	MCR01MZPJ820 82OHM 5% 1/16W 100
R5044	0RJ1501D477	MCR03EZPF152 1.5KOHM 1% 1/10W 1	R5100	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 16
R5045	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1	R5101	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1
R5046	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1	R5103	0RJ0822C678	MCR01MZPJ820 82OHM 5% 1/16W 100
R5048	0RJ0822C678	MCR01MZPJ820 82OHM 5% 1/16W 100	R5105	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 1
R5049	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 16	R5106	0RJ0822C678	MCR01MZPJ820 82OHM 5% 1/16W 100
R5050	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1	R5107	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 16
R5052	0RJ3900D677	MCR03EZPJ391 390OHM 5% 1/10W 16	R5108	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1

REPLACEMENT PARTS LIST

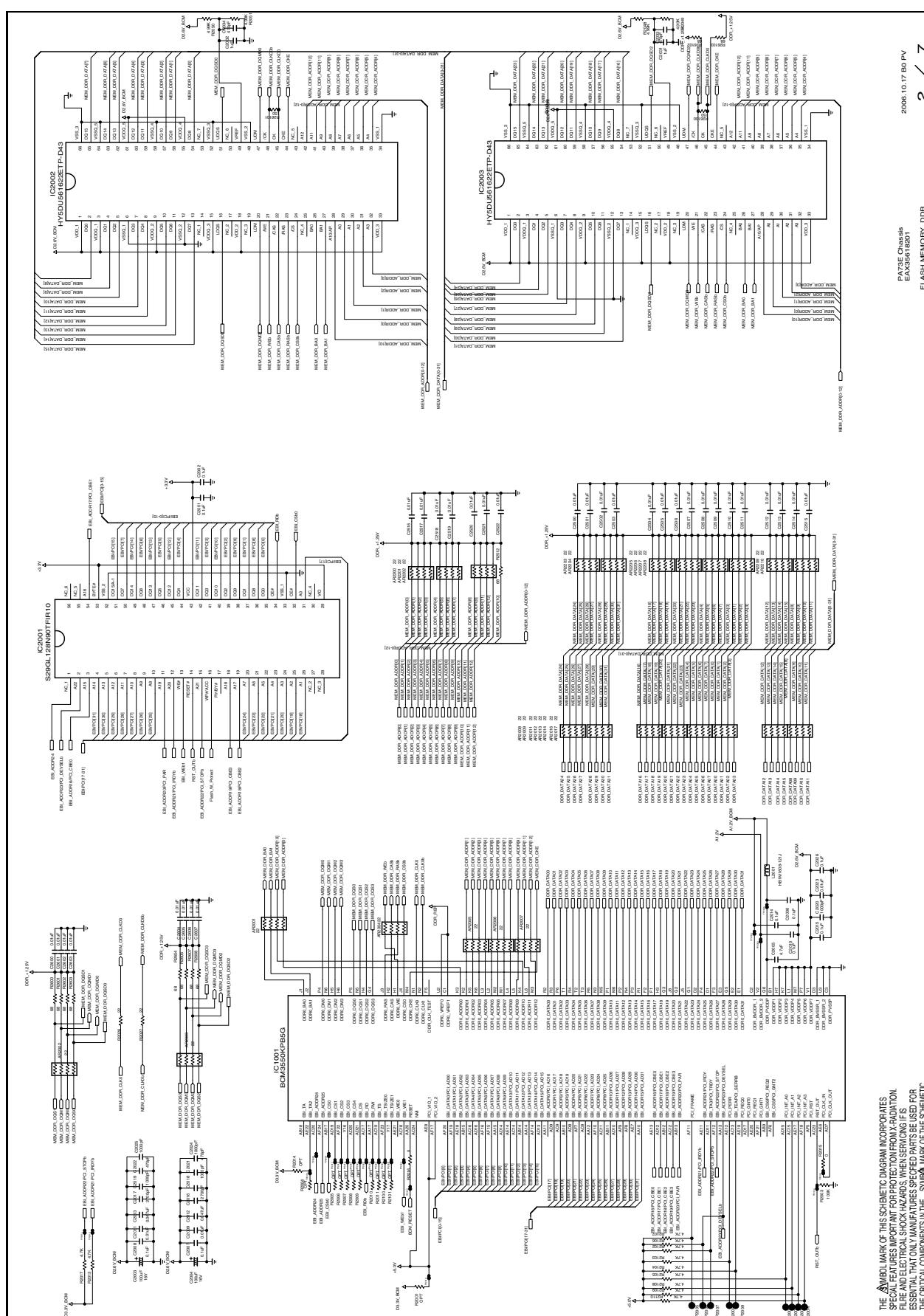
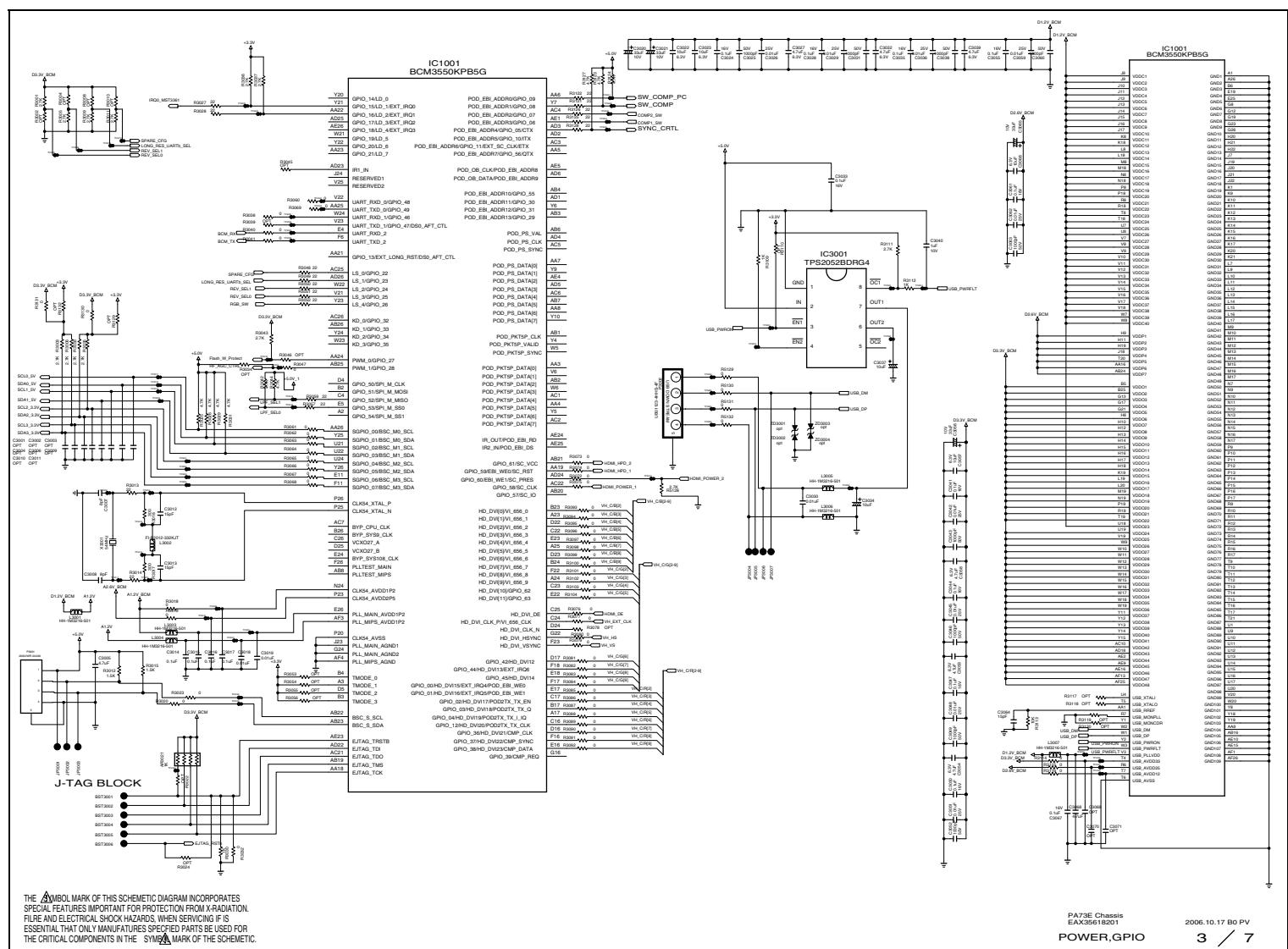
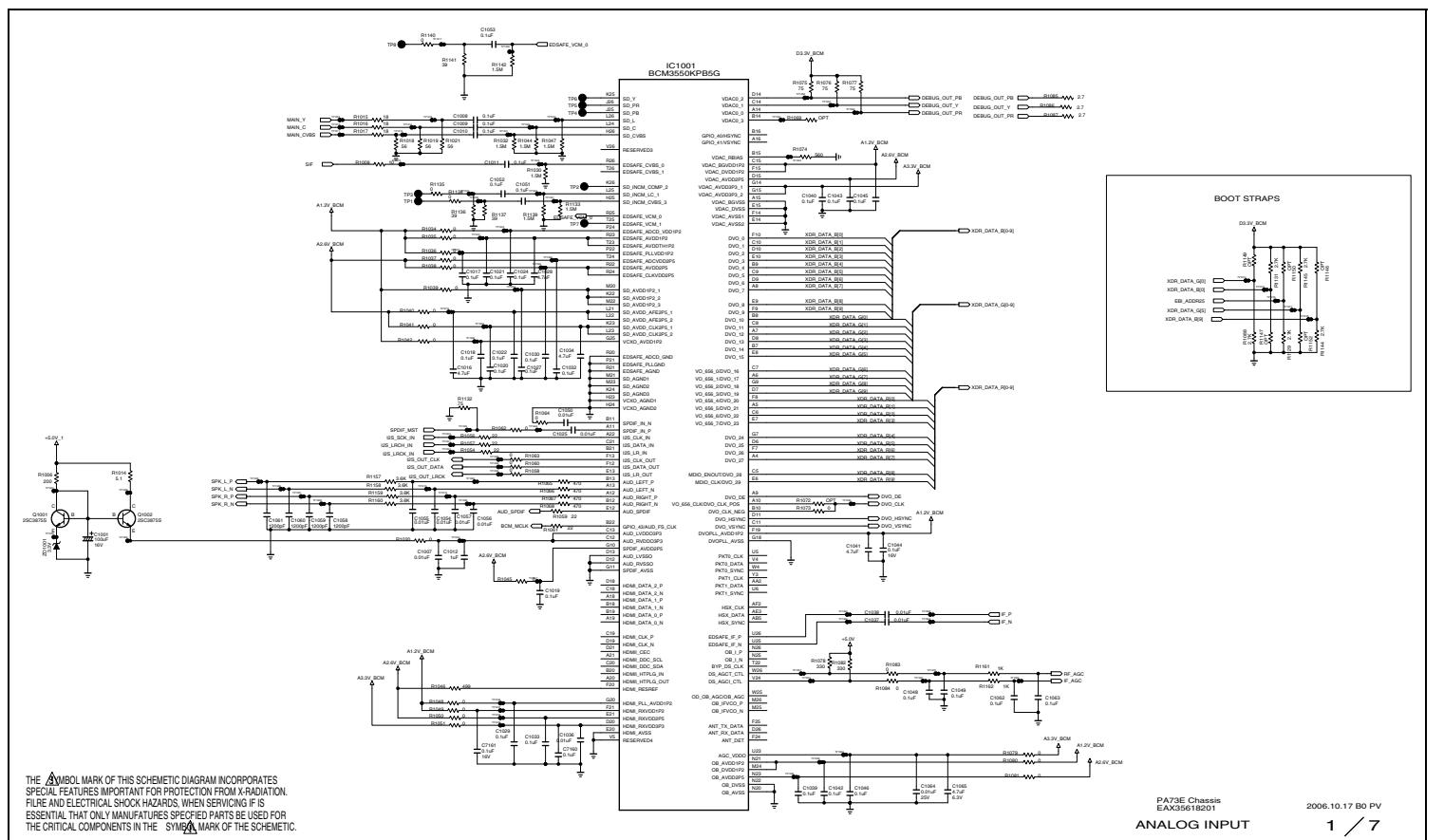
LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
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R5110	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 1	R7018	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R5111	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1	R7019	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R5112	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 16	R7021	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1
R5113	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1	R7022	0RJ2700D677	MCR03EZPJ271 270OHM 5% 1/10W 16
R5114	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 1	R7029	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W 16
R5115	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 10	R7030	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 10
R5116	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 10	R7035	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100
R5117	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 16	R7036	0RJ0332C678	MCR01MZPJ330 330OHM 5% 1/16W 100
R5118	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 16	R7037	0RJ0332C678	MCR01MZPJ330 330OHM 5% 1/16W 100
R5120	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 160	R7038	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100
R5121	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 160	R7039	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100
R5122	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1	R7040	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100
R5123	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 1	R7041	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100
R5124	0RJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/10W 1	R7042	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R5125	0RJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/10W 1	R7043	0RJ3900D677	MCR03EZPJ391 390OHM 5% 1/10W 16
R5126	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 160	R7044	0RJ0332C678	MCR01MZPJ330 330OHM 5% 1/16W 100
R5127	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10	R7045	0RJ0332C678	MCR01MZPJ330 330OHM 5% 1/16W 100
R5128	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/10W 1	R7046	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100
R5129	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R7047	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100
R5130	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R7048	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100
R5131	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R7049	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100
R5132	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R7050	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R6025	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R7051	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1
R6026	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R7052	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 16
R6027	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R7053	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R6032	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R7054	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100
R6033	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R7055	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100
R6034	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R7056	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W 160
R6035	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R7057	0RJ0332C678	MCR01MZPJ330 330OHM 5% 1/16W 100
R6037	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R7058	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W 160
R6038	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R7059	0RJ0332C678	MCR01MZPJ330 330OHM 5% 1/16W 100
R6042	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R7060	0RJ3900D677	MCR03EZPJ391 390OHM 5% 1/10W 16
R6048	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R7061	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W 160
R6057	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R7062	0RJ0332C678	MCR01MZPJ330 330OHM 5% 1/16W 100
R6058	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R7063	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
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R6060	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R7068	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
R6063	0RH0000D622	MCR10EZHZ000 0OHM 5% 1/8W 2012	R7071	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 16
R7004	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W 16	R7072	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1
R7005	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 10	R7073	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R7006	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 160	R7080	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
R7007	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1	R7083	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 16
R7008	0RJ2700D677	MCR03EZPJ271 270OHM 5% 1/10W 16	R7084	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/10W 1
R7009	0RJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W 160	R7085	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R7010	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100	R7086	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100
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R7015	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/16W 1	R7105	0RJ0222C678	MCR01MZPJ220 220OHM 5% 1/16W 100

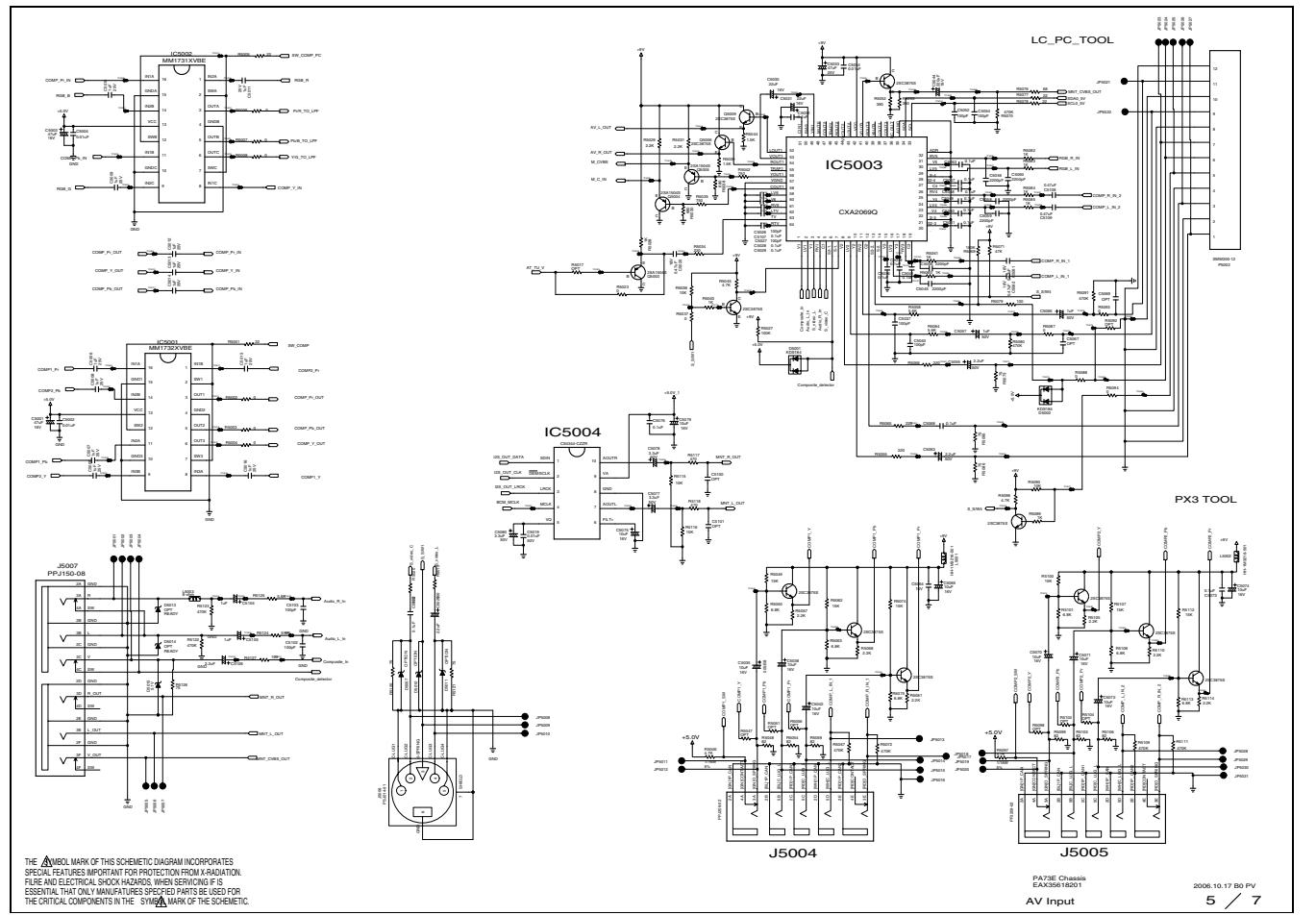
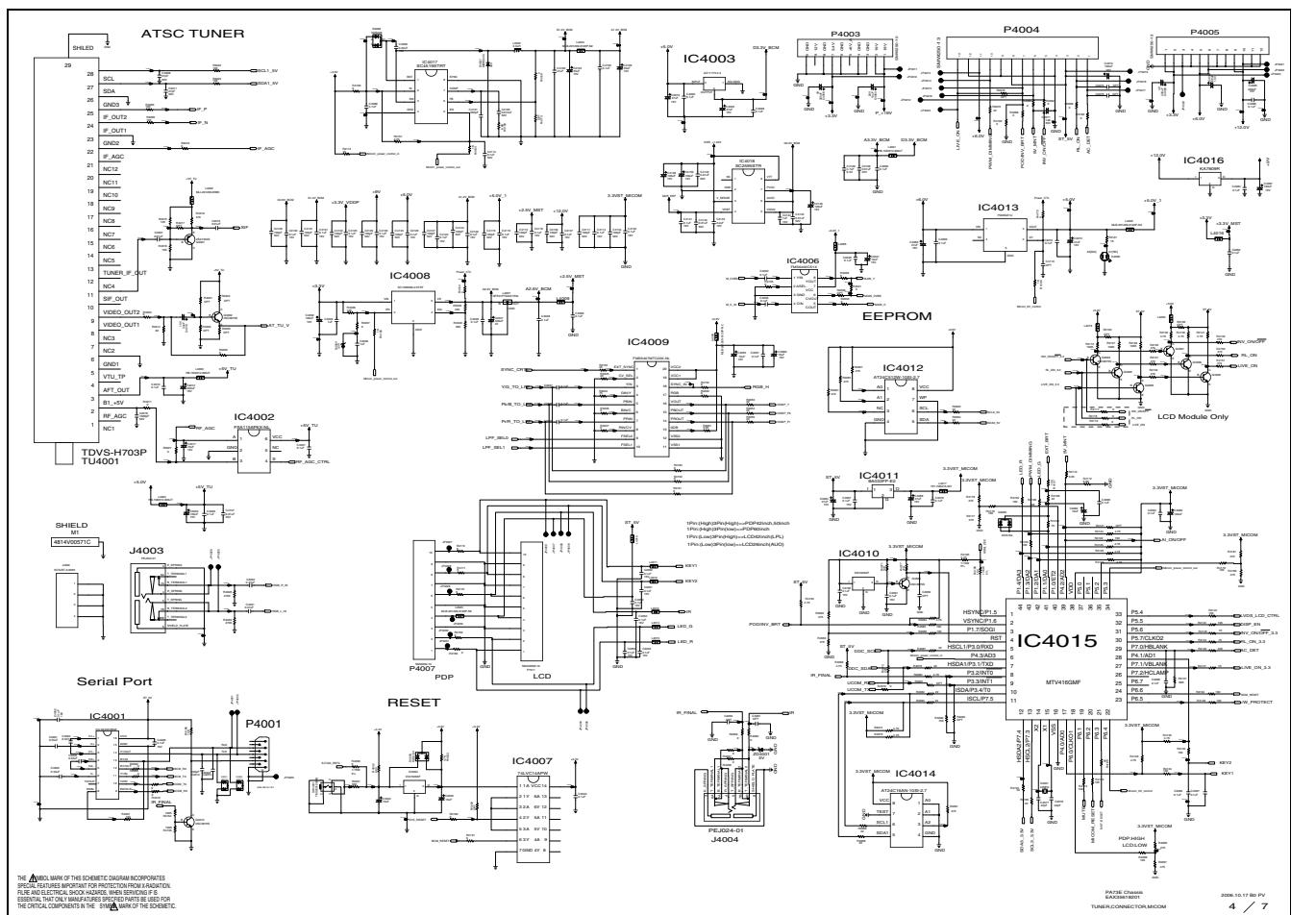
REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
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R7118	0RJ0822C678	MCR01MZPJ820 820OHM 5% 1/16W 100	R7238	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 10
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R7122	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 16	R7242	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 16
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R7132	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 16	R7247	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
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R7187	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	R7252	0RJ5602D677	MCR03EZPJ563 56KOHM 5% 1/10W 16
R7188	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	R7254	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R7189	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	R7255	0RJ5602D677	MCR03EZPJ563 56KOHM 5% 1/10W 16
R7190	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	R7267	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R7191	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100	R7270	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R7192	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	R7271	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 160
R7193	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	R7272	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 160
R7194	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	SWITCH		
R7195	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	SW101	140-313B	Switch,Tact KPT-1115AM 1C1P 12VDC
R7196	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	SW102	140-313B	Switch,Tact KPT-1115AM 1C1P 12VDC
R7197	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	SW103	140-313B	Switch,Tact KPT-1115AM 1C1P 12VDC
R7198	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	SW104	140-313B	Switch,Tact KPT-1115AM 1C1P 12VDC
R7199	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	SW105	140-313B	Switch,Tact KPT-1115AM 1C1P 12VDC
R7200	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	SW106	140-313B	Switch,Tact KPT-1115AM 1C1P 12VDC
R7201	0RJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W 160	SW107	140-313B	Switch,Tact KPT-1115AM 1C1P 12VDC
R7202	0RJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W 160	SW108	140-313B	Switch,Tact KPT-1115AM 1C1P 12VDC
R7203	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	FILTER & CRYSTAL		
R7204	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 16	AR7001	6210TCE002B	Filter,Bead HB-4M3216-121JT 120OHM
R7205	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 16	AR7002	6210TCE002B	Filter,Bead HB-4M3216-121JT 120OHM
R7206	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 16	AR7003	6210TCE002B	Filter,Bead HB-4M3216-121JT 120OHM
R7208	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	AR7004	6210TCE002B	Filter,Bead HB-4M3216-121JT 120OHM
R7209	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	AR7005	6210TCE002B	Filter,Bead HB-4M3216-121JT 120OHM
R7210	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	AR7006	6210TCE002B	Filter,Bead HB-4M3216-121JT 120OHM
R7211	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	L2001	6210TCE0013	Filter,Bead HB-1M1608-121JT 120OHM
R7212	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	L3001	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM
R7213	0RJ0000D677	MCR03EZPJ101 0OHM 5% 1/10W 16	L3003	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM
R7214	0RJ0000D677	MCR03EZPJ101 0OHM 5% 1/10W 16	L3004	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM
R7215	0RJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W 160	L3005	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM
R7216	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	L3006	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM
R7217	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 16	L3007	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM
R7218	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 16	L4003	6210TCE001E	Filter,Bead HB-1M2012-800JT(H:1mm)
R7219	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	L4004	6210TCE001E	Filter,Bead HB-1M2012-800JT(H:1mm)
R7220	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	L4005	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120
R7221	0RJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W 160	L4007	6200J000123	Filter,LCR NFE31PT222Z1E9L LPF(EMI
R7222	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10W 16	L4009	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120
R7223	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 16	L4010	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120
R7224	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 16	L4011	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120
R7225	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100	L4012	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120
R7226	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 100			
R7233	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 16			

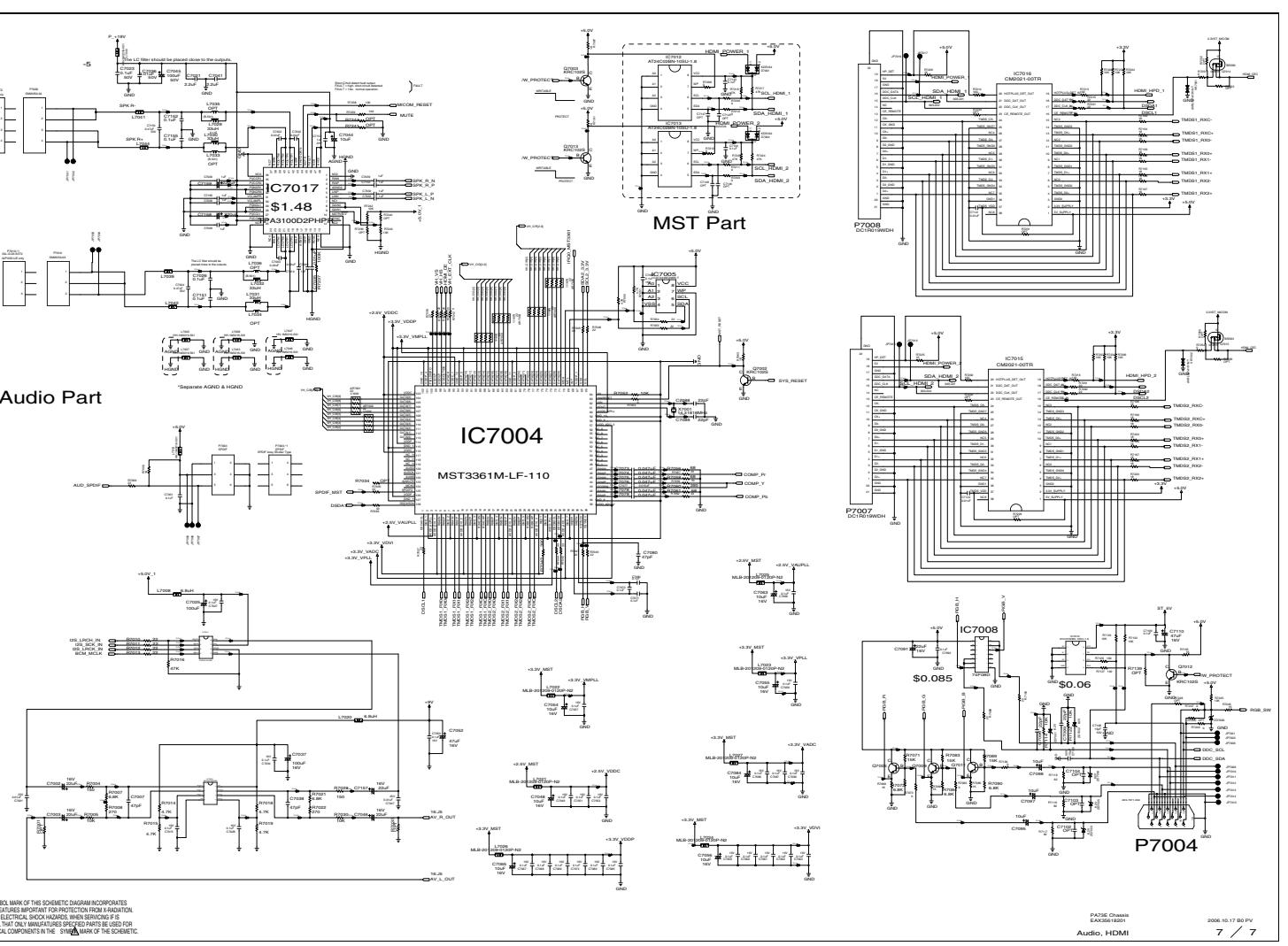
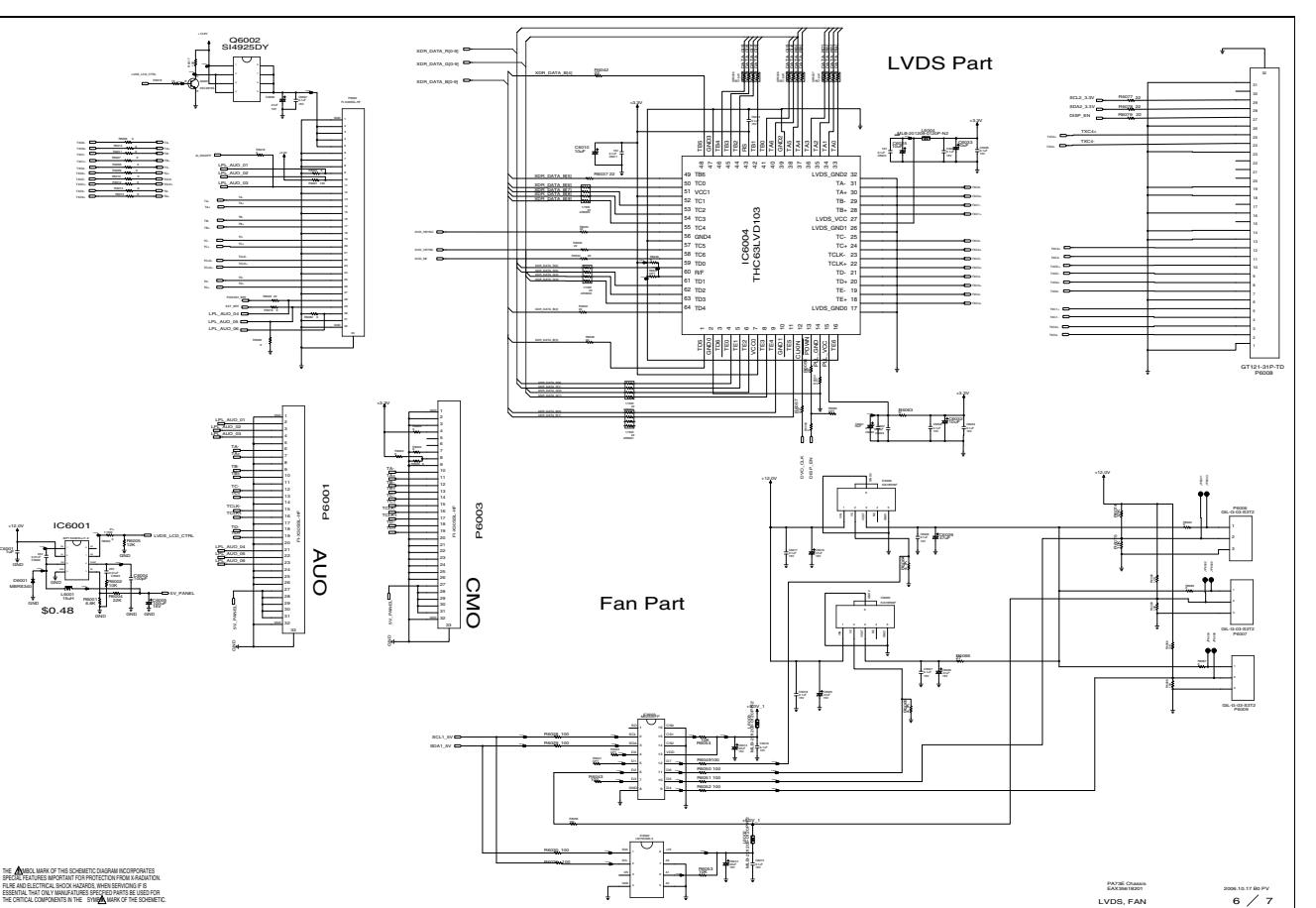
REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
L4013	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120	"	MFL34797005	Manual,Owners *LGECL
L4014	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120	A3	EAD36401701	Power Cord
L4015	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120	A4	6852TAZ010F	Cable,Assembly SMA CONNECTOR(M)
L4016	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120	A7	4972V00178A	Supporter,COMPLEX NON METAL ASSY
L4017	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM			
L4021	6210TCE001E	Filter,Bead HB-1M2012-800JT(H:1mm)			
L4023	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120			
L4024	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120			
L4025	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120			
L5001	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM			
L5002	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM			
L5003	6210TCE001A	Filter,Bead HB-1S2012-080JT 8OHM 2X			
L6004	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120			
L7019	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM			
L7021	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120			
L7022	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120			
L7023	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120			
L7024	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120			
L7025	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120			
L7026	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120			
L7027	OLCML00003B	Filter,Bead MLB-201209-0120P-N2 120			
L7037	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM			
L7038	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM			
L7039	6210TCE001S	Filter,Bead HU-1M2012-121 120OHM 2X			
L7040	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM			
L7041	6210TCE001S	Filter,Bead HU-1M2012-121 120OHM 2X			
L7042	6210TCE001S	Filter,Bead HU-1M2012-121 120OHM 2X			
L7043	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM			
L7044	6210TCE001S	Filter,Bead HU-1M2012-121 120OHM 2X			
L7045	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM			
L7046	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM			
L7047	6210TCE001G	Filter,Bead HH-1M3216-501JT 500OHM			
X3001	6212AA2600B	Crystal,54MHz 30PPM			
X4001	6202TST001E	Crystal,SX-1 24MHZ 30PPM(20PF) 24MHZ			
X7001	6202TST001A	Crystal,SX-1 14.31818MHZ 30PPM(18PF)			
MISCELLANEOUS					
IC100	6712000013A	Receiver Module,TSOP4438SO1			
IC2001	SAA30276102	S/W,Firmware 3.00.0 5909			
"	SAA30670704	S/W,Firmware 3.04.0 E7C6			
"	SAA30852102	S/W,Firmware 3.02 1264 *42PC5DC			
IC4015	SAA30266004	S/W,Firmware 3.05.0 273C			
"	SAA30670804	S/W,Firmware 3.04.0 9EE6			
"	SAA30852201	S/W,Firmware 3.04 9EE6 *42PC5DC			
P7003	68719ST035E	PCB Assembly,Sub Shutter Type TOX177L(F,T)			
TU4001	EBL32758001	Tuner,Analog/Digital TDVS-H703P			
VR7001	6102W5V016A	Varistor,AVRL161A1R1NT 10V 30%			
VR7002	6102W5V016A	Varistor,AVRL161A1R1NT 10V 30%			
ACCESSORIES					
A1	MFL34797017	Manual,Owners			





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